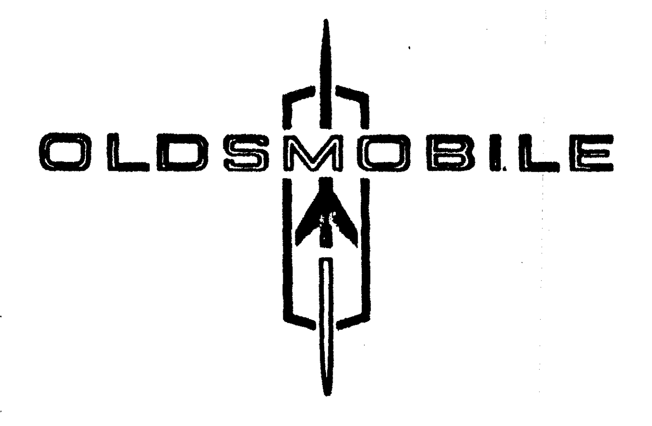
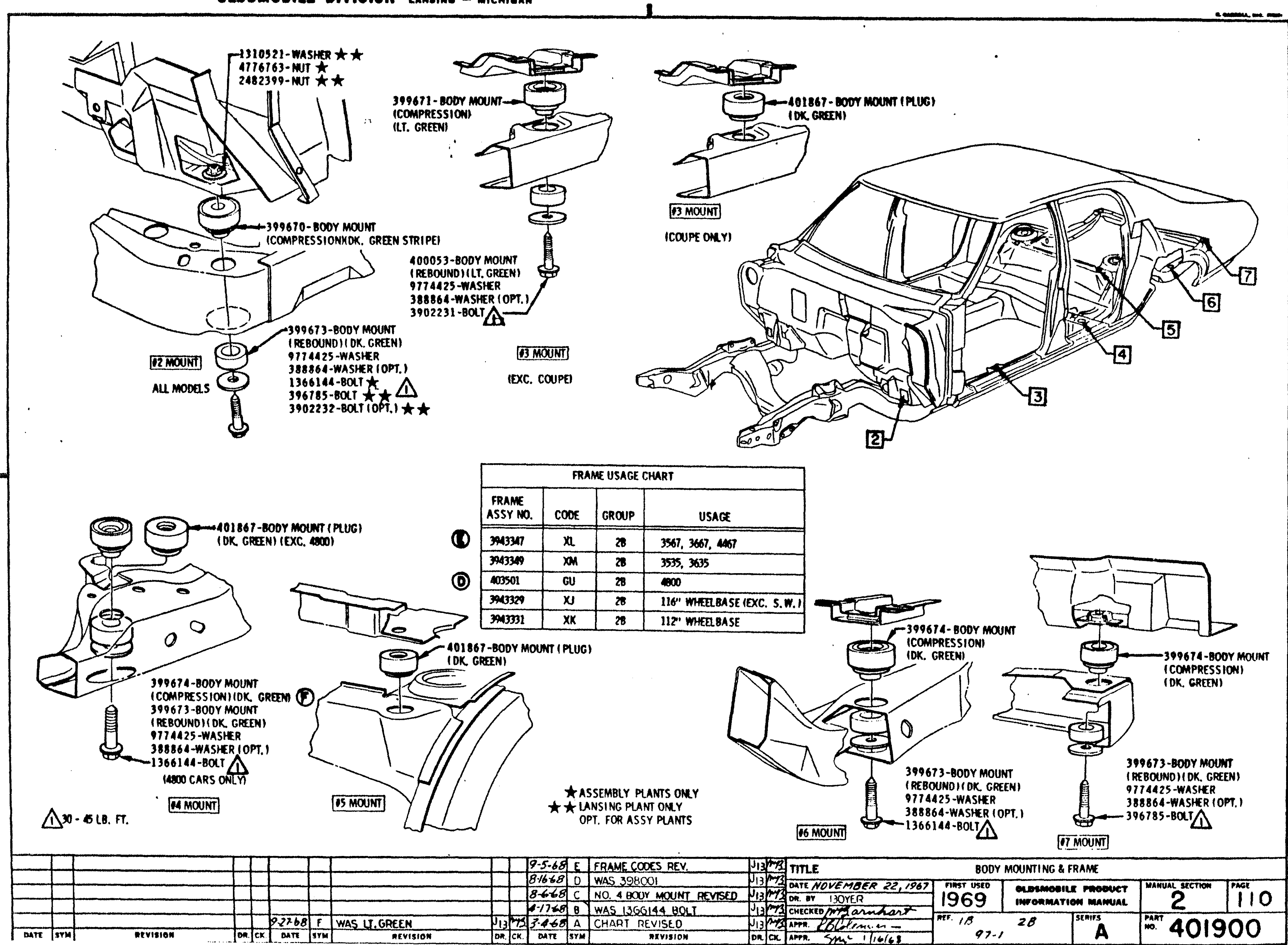


SECTION 2 BODY MOUNTING

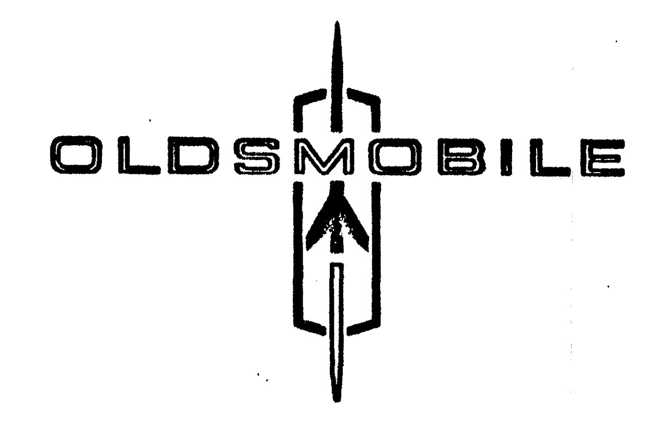


FRAME USAGE CHART

	FRAME ASSY NO.	CODE	GROUP	USAGE
E	3943347	XL	2B	3567, 3667, 4467
	3943349	XM	2B	3535, 3635
D	403501	GU	2B	4800
	3943329	XJ	2B	116" WHEELBASE (EXC. S.W.)
	3943331	XK	2B	112" WHEELBASE

DATE	SYM	REVISION	DR.	CK.
9-27-68	F	WAS LT. GREEN	J13	MJS
9-5-68	E	FRAME CODES REV.	J13	MJS
8-16-68	D	WAS 398001	J13	MJS
8-6-68	C	NO. 4 BODY MOUNT REVISED	J13	MJS
4-17-68	B	WAS 1366144 BOLT	J13	MJS
3-4-68	A	CHART REVISED	J13	MJS

TITLE: BODY MOUNTING & FRAME
DATE: NOVEMBER 22, 1967
DR. BY: BOYER
CHECKED: [signature]
APPR.: [signature]
APPR.: [signature] 1/16/68
FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
REF. 1B 2B 97-1
SERIES: A
MANUAL SECTION: 2
PAGE: 110
PART NO. 401900



SECTION 3 FRONT SUSPENSION

FRONT SUSPENSION SPRING USAGE - 1969 F-85

SERIES	MODEL	35FE2 EXC. C60 (EXC. A/C)	35FE2 C60 (A/C)	F40 (EXPORT) EXC. C60 (EXC. A/C)	F40 (EXPORT) C60 (A/C)	L31 (400 ENG.) EXC. C60 (EXC. A/C)	L31 (400 ENG.) C60 (A/C)	C60 (A/C) EXCEPT EXPORT OR 400 ENG.	3C (STANDARD)
33100 (L6)	77	NA	NA	403590 R8	403591 S5	NA	NA	401186 LO	401244 LN
33200 (V8)	77	401420 RX	400334 RI	401420 RX	400333 RD	NA	NA	400881 LY	400872 LT
33500 (L6)	35	NA	NA	R.H. - 403590 R8	R.H. - 403591 S5	NA	NA	R.H. - 401187 LP	R.H. - 401244 LN
		NA	NA	L.H. - 403591 S5	L.H. - 401419 RY	NA	NA	L.H. - 400871 LS	L.H. - 400864 LE
	39	NA	NA	401418 RW	401419 RY	NA	NA	400871 LS	400864 LE
	67	NA	NA	401418 RW	401419 RY	NA	NA	401187 LP	401184 LD
	69	NA	NA	403590 R8	401419 RY	NA	NA	401187 LP	401184 LD
	77	NA	NA	403590 R8	403591 S5	NA	NA	401186 LO	401244 LN
	87	NA	NA	403590 R8	403591 S5	NA	NA	401187 LP	401184 LD
33600 (V8)	35	NA	NA	R.H. - 401420 RX	R.H. - 400334 RI	NA	NA	R.H. - 400879 LU	R.H. - 401186 LO
		NA	NA	L.H. - 400333 RD	L.H. - 400335 RK	NA	NA	L.H. - 400883 SE	L.H. - 400874 LX
	39	NA	NA	403592 S6	400334 RI	NA	NA	400883 SE	400873 LV
	67	401420 RX	400334 RI	401420 RX	400334 RI	NA	NA	400882 SB	400873 LV
	69	NA	NA	401420 RX	400334 RI	NA	NA	400882 SB	400873 LV
	77	401420 RX	400334 RI	401420 RX	400333 RD	NA	NA	400882 SB	400872 LT
	87	401420 RX	400334 RI	401420 RX	400333 RD	NA	NA	400882 SB	400872 LT
(D) 34200 (V8)	39	NA	NA	403592 S6	400334 RI	NA	NA	400883 SE	400873 LV
	69	NA	NA	401420 RX	400334 RI	NA	NA	400882 SB	400873 LV
	87	NA	NA	401420 RX	400333 RD	NA	NA	400881 LY	400872 LT
(D) 34400 (V8)	67	NA	NA	NA	NA	401420 RX	400334 RI	400334 RI	401420 RX
	77	NA	NA	NA	NA	401420 RX	400334 RI	400334 RI	401420 RX
	87	NA	NA	NA	NA	401420 RX	400334 RI	400334 RI	401420 RX
34800 (V8)	55	NA	NA	R.H. - 400334 RI	R.H. - 400337 RO	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400980 SF	R.H. - 400975 SC
		NA	NA	L.H. - 400336 RM	L.H. - 401421 RP	L.H. - 404856 R7	L.H. - 404857 S7	L.H. - 404856 R7	L.H. - 401174 SK
	65	NA	NA	R.H. - 400333 RD	R.H. - 400336 RM	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400980 SF	R.H. - 400975 SC
		NA	NA	L.H. - 400335 RK	L.H. - 400337 RO	L.H. - 404856 R7	L.H. - 404857 S7	L.H. - 404856 R7	L.H. - 401174 SK

TO READ CHART:

READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS COMPLETELY SATISFIED WILL INDICATE THE SPRINGS TO BE USED ON THAT MODEL. IF NONE OF THE CONDITIONS ABOVE ARE SATISFIED, THE LAST COLUMN IS STANDARD CAR (LESS ALL OPTIONS SHOWN TO THE LEFT OF IT) AND WILL INDICATE THE SPRINGS TO BE USED.

STANDARD USAGE EXCEPT 35, 55 & 65 MODELS: USE HIGH RANGE SPRING ON L.H. SIDE OF CAR AND LOW RANGE ON R.H. SIDE.

TEMPORARY USAGE EXCEPT 35, 55 & 65 MODELS: WHEN BOTH SPRING RANGES ARE NOT AVAILABLE USE SAME RANGE SPRING ON BOTH SIDES OF CAR.

(E) STANDARD USAGE FOR 35, 55 & 65 MODELS: USE SAME RANGE SPRINGS ON BOTH SIDES OF CAR.

TEMPORARY USAGE FOR 35, 55 & 65 MODELS: WHEN SAME RANGE SPRINGS FOR BOTH SIDES OF CAR ARE NOT AVAILABLE.

(PREFERRED) USE HIGH RANGE ON LEFT SIDE OF CAR AND LOW RANGE ON RIGHT SIDE OF CAR.

(OPTIONAL) USE LOW RANGE ON LEFT SIDE OF CAR AND HIGH RANGE ON RIGHT SIDE OF CAR.

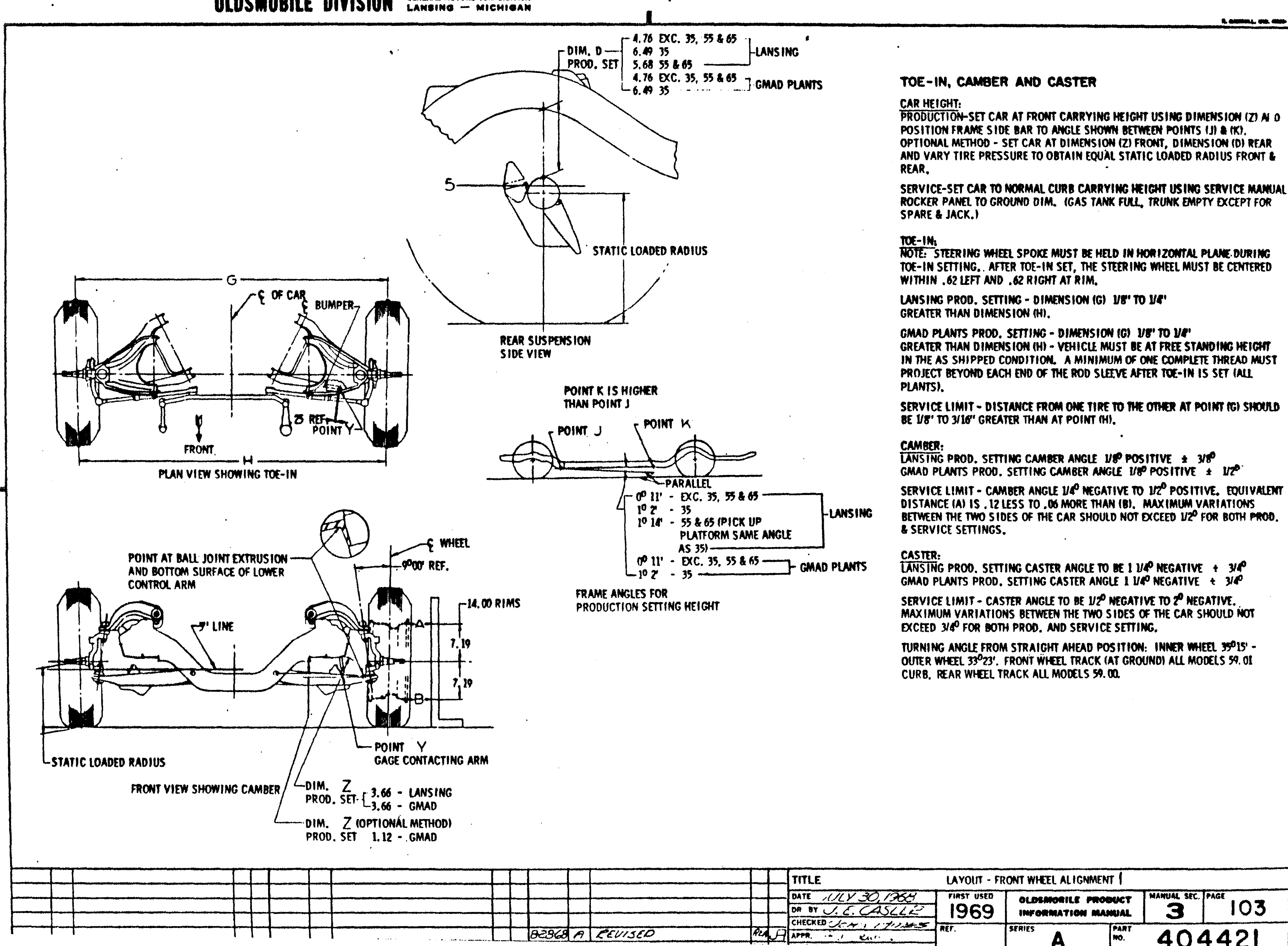
TAPE IDENTIFICATION: HIGH LOAD RANGE - PLAIN IDENTIFICATION. LOW LOAD RANGE - BLACK CIRCLE AROUND CODE LETTER.

FOR SPRING DETAIL SEE DRAWING 400860.

DATE	SYM	REVISION	DR.	CK.
5-1-69	E	NOTE REVISED		
1-17-69	D	34200 & 34400 F40 EXPORT REVISED		
10-31-68	C	REVISED		
3-25-68	B	F40 EXPORT REVISED		
3-16-68	A	WAS 401120	JS	

TITLE: CHART - FRONT SPRING USAGE
DATE: FEB. 27, 1968
DR. BY: DON MALKIN
CHECKED: J. Ames
APPR.: F. a. [illegible]
FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC.: 3
PAGE: 100
SERIES: A
PART NO.: 403618

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN



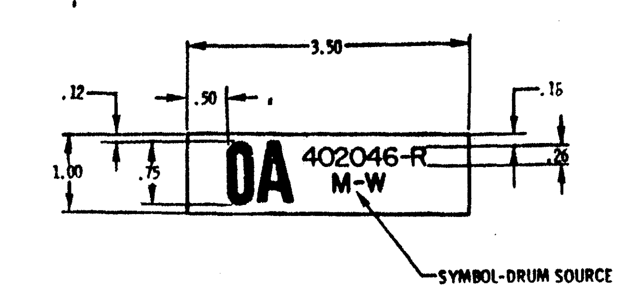
OLDSMOBILE DIVISION

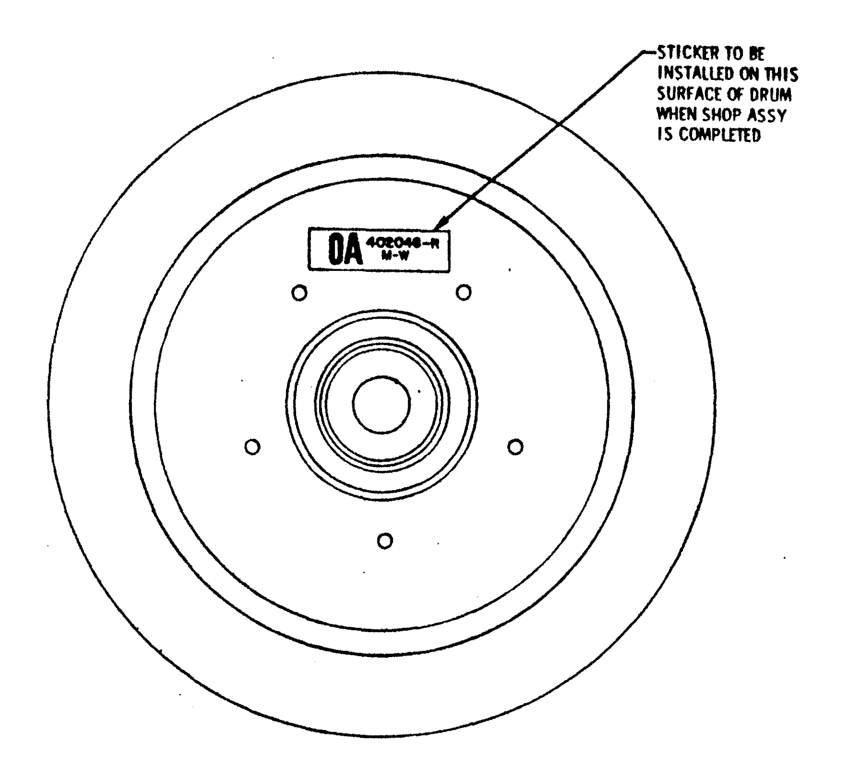
GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

STEERING KNUCKLE ASSEMBLY USAGE

CODE	STEERING	BRAKES	PART NO.	MODELS
OF	MANUAL	POWER	402044-R. 402045-L.	54, 64 & 6600
OT	MANUAL	MANUAL	403294-R. 403295-L.	54, 64 & 6600
OA	POWER	POWER	402046-R. 402047-L.	54, 64, 66, 84 & 8600
OP	POWER	MANUAL	403296-R. 403297-L.	54, 64 & 6600
NOTE: ON POWER BRAKE EQUIPPED CARS ONLY, KNUCKLE ASSEMBLIES "OF" AND "OT" ARE OPTIONAL AND KNUCKLE ASSEMBLIES "OA" AND "OP" ARE OPTIONAL.				
OB	—	—	401996-R. 401997-L.	ALL F85 EXC. EXT. WAGONS
OD	—	—	401998-R. 401999-L.	ALL F85 EXT. WAGONS

NOTE:
KNUCKLE ASSEMBLIES MUST BE USED IN PAIRS AS SHOWN ABOVE.





Ⓐ EXC. JL2, J55

SHEET 1 OF 2

DATE	SYM	REVISION	DR.	CK.
8-22-68	C	REVISED		
3-16-68	B2	PART NO'S ADDED		
1-26-68	A	WAS EXC J52, J55		

TITLE: CHART - KNUCKLE SHOP ASSEMBLY CODE

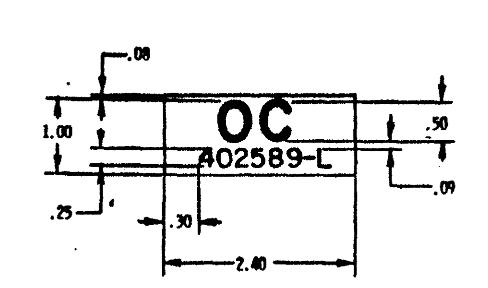
DATE DEC 12, 1967
DR. BY DON MALKIN
CHECKED J. Ames
APPR.
APPR.

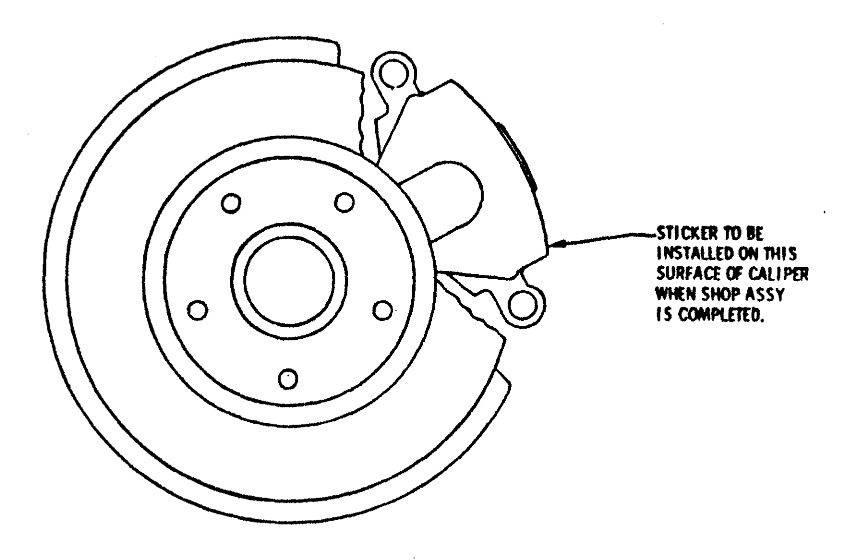
FIRST USED 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC. 3
PAGE 105
REF.
SERIES A-B-C
PART NO. 402918

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN

USAGE
STEERING KNUCKLE ASSEMBLIES

CODE	STEERING	MODEL	PART NO.	
				Ⓒ
OE	POWER	54, 64, 66 84 & 86 WITH JL2	402596-R. 402597-L.	Ⓑ
OH	MANUAL	54, 64, 66 WITH J55	404842-R. 404843-L.	Ⓕ
OG	POWER	54, 64, 66 84, 86 WITH J55	404844-R. 404845-L.	Ⓖ
OM		ALL F-85 WITH JL2 (EXCEPT W46)	402052-R. 402053-L.	Ⓑ Ⓔ Ⓙ
OU		ALL F-85 WITH JL2 & W46	405980-R. 405981-L.	Ⓓ Ⓗ

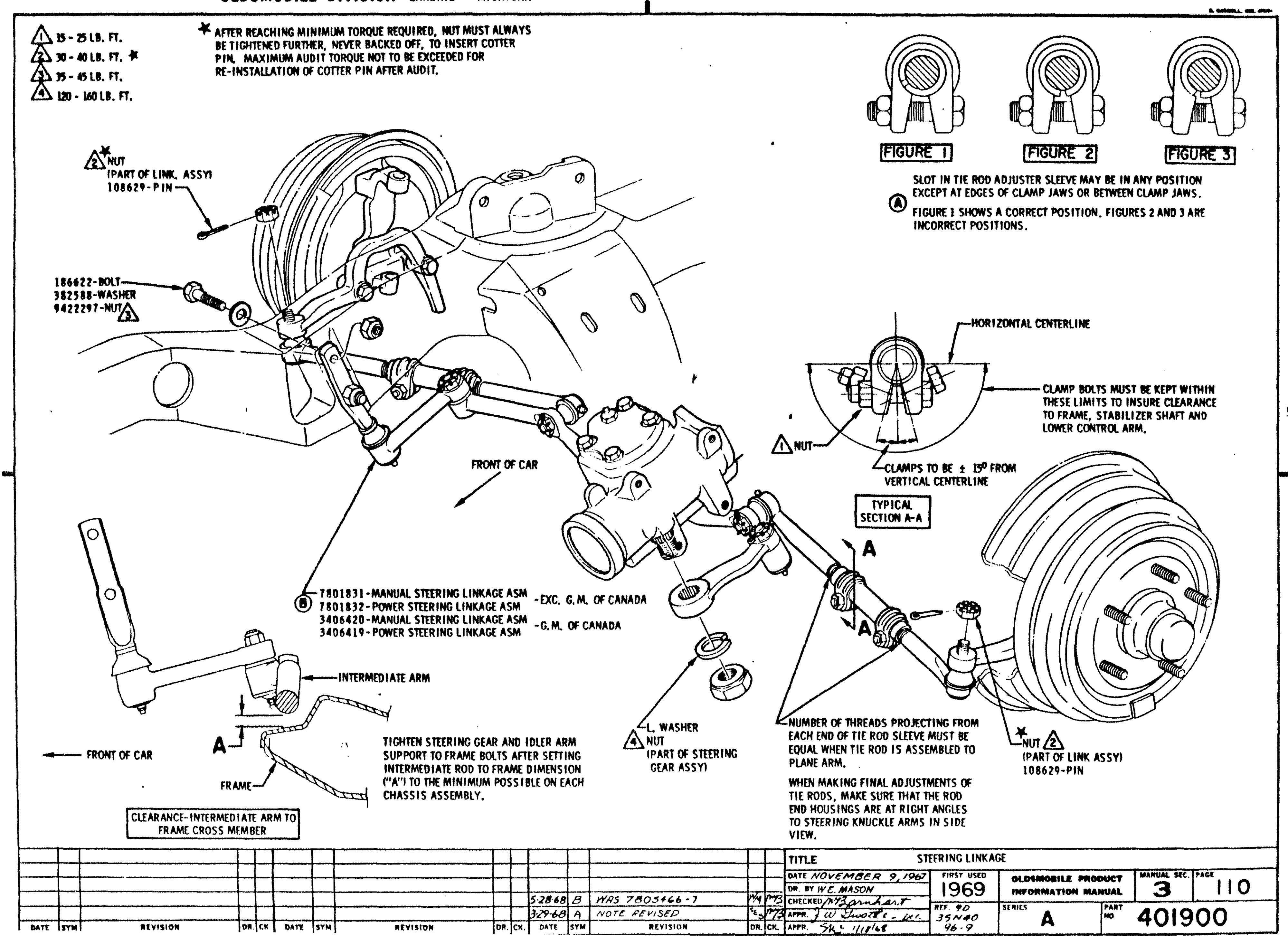


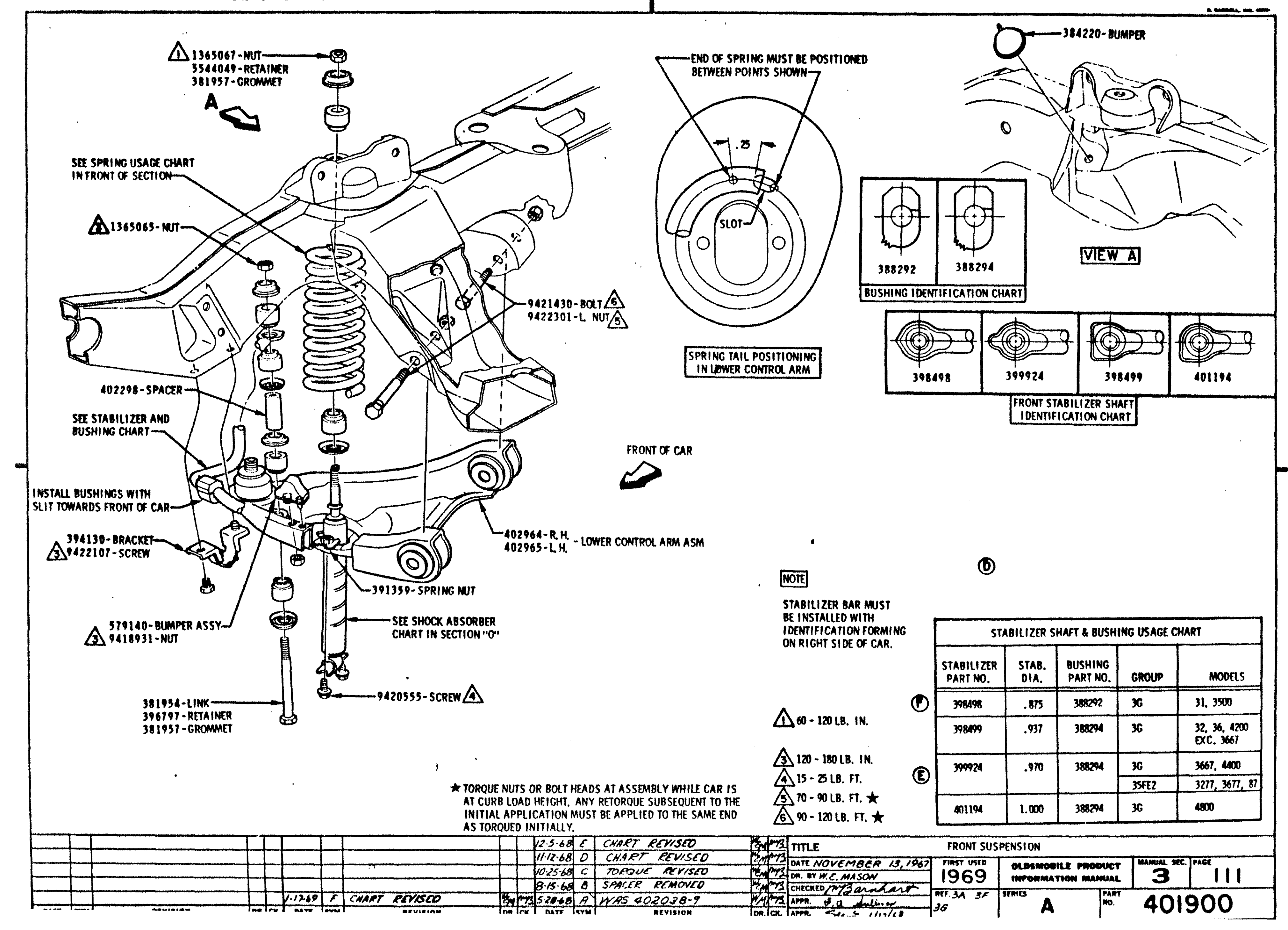


Ⓐ JL2, J55 | SHEET 2

DATE	SYM	REVISION	DR.	CK.
2-4-1969	J	(EXCEPT W46) ADDED	KL	JA
2-1969	H	405980-1 ADDED	KL	JA
10-29-68	G	WAS 402600-1	KL	JA
10-29-68	F	WAS 402598-9	KL	JA
8-1968	E	MODEL USAGE REVISED		JA
8-1968	D	402054-5 REMOVED		JA
8-1968	C	402588-9 REMOVED		JA
1-26-68	B2	MODEL USAGE REVISED		JA
1-26-68	A	WAS J52, J55		JA

TITLE: CHART - KNUCKLE SHOP ASSEMBLY CODE
DATE: DEC. 9, 1967
DR. BY: B. SCHMIDT
CHECKED: J. Ames
APPR.: J. R. [illegible]
FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC.: 3
PAGE: 106
SERIES: A-B-C
PART NO.: 402918


OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN
1 15 - 25 LB. FT.
2 30 - 40 LB. FT. *
3 35 - 45 LB. FT.
4 120 - 160 LB. FT.
* AFTER REACHING MINIMUM TORQUE REQUIRED, NUT MUST ALWAYS BE TIGHTENED FURTHER, NEVER BACKED OFF, TO INSERT COTTER PIN. MAXIMUM AUDIT TORQUE NOT TO BE EXCEEDED FOR RE-INSTALLATION OF COTTER PIN AFTER AUDIT.
FIGURE 1
FIGURE 2
FIGURE 3
A SLOT IN TIE ROD ADJUSTER SLEEVE MAY BE IN ANY POSITION EXCEPT AT EDGES OF CLAMP JAWS OR BETWEEN CLAMP JAWS.
FIGURE 1 SHOWS A CORRECT POSITION. FIGURES 2 AND 3 ARE INCORRECT POSITIONS.
2* NUT (PART OF LINK ASSY) 108629-PIN
186622-BOLT
382588-WASHER
9422297-NUT 3
HORIZONTAL CENTERLINE
CLAMP BOLTS MUST BE KEPT WITHIN THESE LIMITS TO INSURE CLEARANCE TO FRAME, STABILIZER SHAFT AND LOWER CONTROL ARM.
1 NUT
CLAMPS TO BE ± 15° FROM VERTICAL CENTERLINE
TYPICAL SECTION A-A
FRONT OF CAR
A
A
B 7801831-MANUAL STEERING LINKAGE ASM
7801832-POWER STEERING LINKAGE ASM -EXC. G.M. OF CANADA
3406420-MANUAL STEERING LINKAGE ASM
3406419-POWER STEERING LINKAGE ASM -G.M. OF CANADA
INTERMEDIATE ARM
FRONT OF CAR
A
FRAME
CLEARANCE-INTERMEDIATE ARM TO FRAME CROSS MEMBER
TIGHTEN STEERING GEAR AND IDLER ARM SUPPORT TO FRAME BOLTS AFTER SETTING INTERMEDIATE ROD TO FRAME DIMENSION ("A") TO THE MINIMUM POSSIBLE ON EACH CHASSIS ASSEMBLY.
L. WASHER
4 NUT (PART OF STEERING GEAR ASSY)
NUMBER OF THREADS PROJECTING FROM EACH END OF TIE ROD SLEEVE MUST BE EQUAL WHEN TIE ROD IS ASSEMBLED TO PLANE ARM.
WHEN MAKING FINAL ADJUSTMENTS OF TIE RODS, MAKE SURE THAT THE ROD END HOUSINGS ARE AT RIGHT ANGLES TO STEERING KNUCKLE ARMS IN SIDE VIEW.
*NUT 2 (PART OF LINK ASSY) 108629-PIN
5-28-68 B WAS 7805466-7
3-29-68 A NOTE REVISED
DATE SYM REVISION DR. CK.
TITLE STEERING LINKAGE
DATE NOVEMBER 9, 1967
DR. BY W.E. MASON
FIRST USED 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC. 3
PAGE 110
SERIES A
PART NO. 401900



NOTE

STABILIZER BAR MUST BE INSTALLED WITH IDENTIFICATION FORMING ON RIGHT SIDE OF CAR.

1 60 - 120 LB. IN.
3 120 - 180 LB. IN.
4 15 - 25 LB. FT.
5 70 - 90 LB. FT. ★
6 90 - 120 LB. FT. ★

★ TORQUE NUTS OR BOLT HEADS AT ASSEMBLY WHILE CAR IS AT CURB LOAD HEIGHT. ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.

STABILIZER SHAFT & BUSHING USAGE CHART

	STABILIZER PART NO.	STAB. DIA.	BUSHING PART NO.	GROUP	MODELS
F	398498	.875	388292	3G	31, 3500
	398499	.937	388294	3G	32, 36, 4200 EXC. 3667
E	399924	.970	388294	3G	3667, 4400
				35FE2	3277, 3677, 87
	401194	1.000	388294	3G	4800

DATE	SYM	REVISION	DR.	CK.
1-17-69	F	CHART REVISED		
12-5-68	E	CHART REVISED		
11-12-68	D	CHART REVISED		
10-25-68	C	TORQUE REVISED		
8-15-68	B	SPACER REMOVED		
5-28-68	A	WRS 402038-9		

TITLE FRONT SUSPENSION

DATE NOVEMBER 13, 1967
DR. BY W.E. MASON
CHECKED M. Barnhart
APPR.
APPR. 11/13/68

FIRST USED 1969

REF. 3A 3F 3G

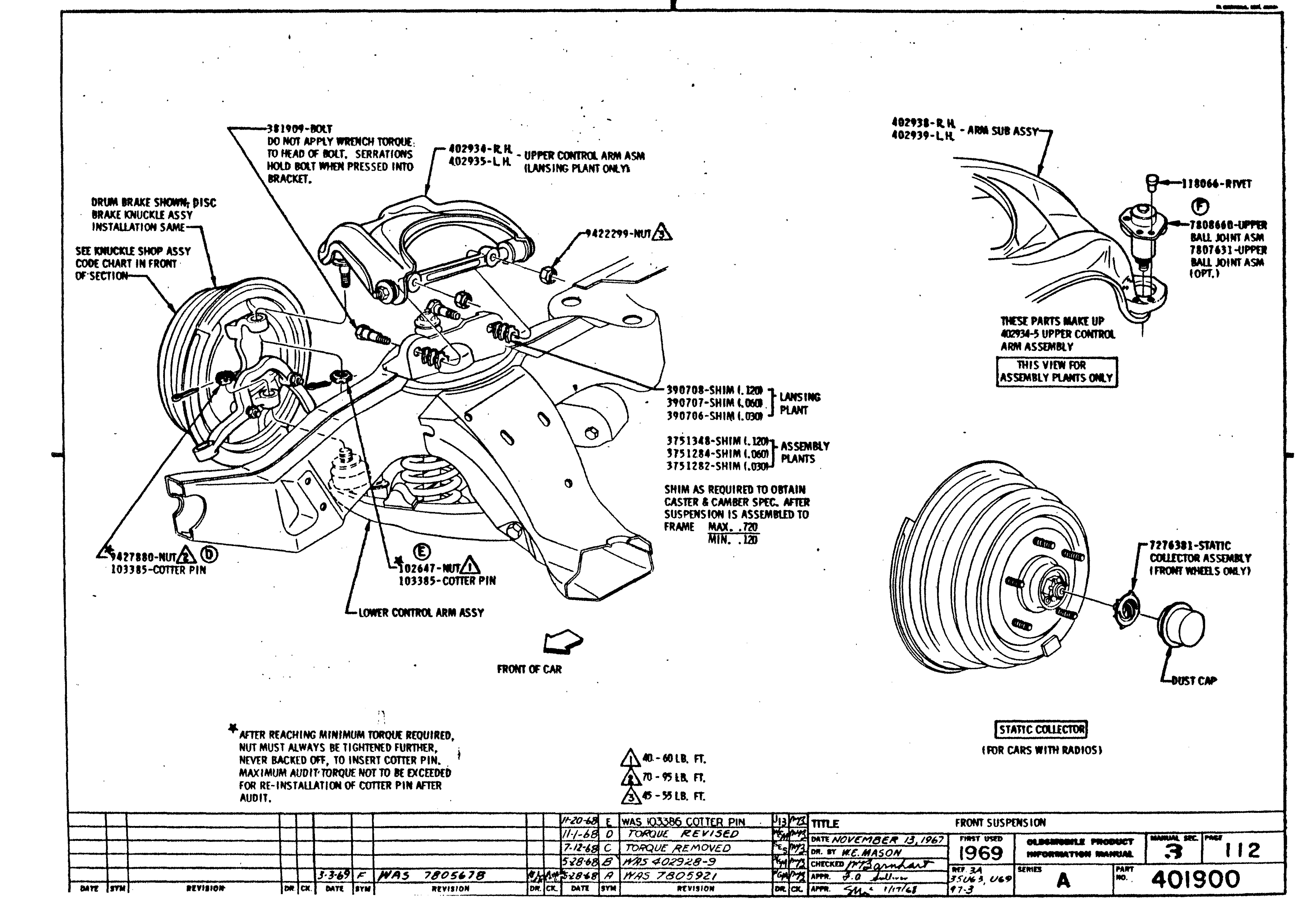
OLDSMOBILE PRODUCT INFORMATION MANUAL

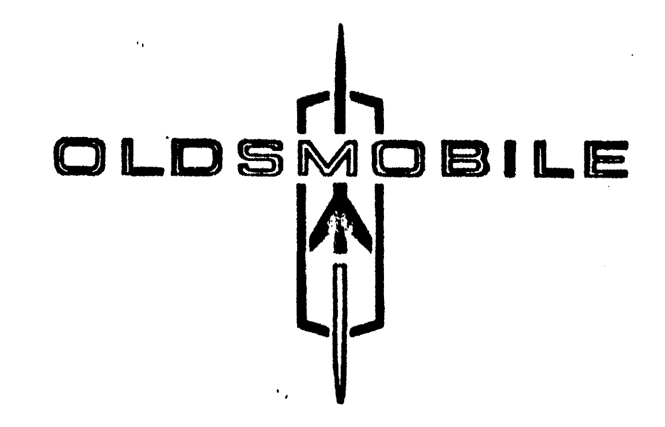
MANUAL SEC. 3 PAGE 111

SERIES A

PART NO. 401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN





SECTION 4 REAR SUSPENSION

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN

REAR SUSPENSION SPRING USAGE -1969 F-85

SERIES	MODEL	35FE2 EXC. M31, M38	35FE2 M31 OR M38	F40 (EXPORT)	G51 (TRAILER HAULING)	M40 (3-SPEED A. M. T.)	4B (STANDARD CAR)
33100 (L6)	77	N.A.	N.A.	9788448 NK	9793915 HG	SAME AS STANDARD CAR	9787047 PU
33200 (V8)	77	9797319 HW	9792489 NP	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9777794 NN
33500 (L6)	35	N.A.	N.A.	9797508 HV	9797508 HV	SAME AS STANDARD CAR	9787051 NF
	39	N.A	N.A.	9788689 PP	9793915 HG	SAME AS STANDARD CAR	9788444 NO
	67	N.A.	N.A.	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9777794 NN
	69	N.A.	N.A.	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9787260 PC
	77	N.A.	N.A.	9788448 NK	9793915 HG	SAME AS STANDARD CAR	9787047 PU
	87	N.A.	N.A.	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9777794 NN
33600 (V8)	35	N.A.	N.A.	9797508 HV	9797508 HV	SAME AS STANDARD CAR	9787051 NF
	39	N.A.	N.A.	9797507 HR	9793915 HG	SAME AS STANDARD CAR	9787043 NB
	67	9797319 HW	9792489 NP	9797507 HR	9793915 HG	SAME AS STANDARD CAR	9787260 PC
	69	N.A.	N.A.	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9788444 NO
	77	9797319 HW	9792489 NP	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9777794 NN
	87	9797319 HW	9792489 NP	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9777794 NN
34200 (V8)	39	N.A.	N.A.	9797507 HR	9793915 HG	SAME AS STANDARD CAR	9787043 NB
	69	N.A.	N.A.	9797507 HR	9793915 HG	SAME AS STANDARD CAR	9788444 NO
	87	N.A.	N.A.	9788589 PP	9793915 HG	SAME AS STANDARD CAR	9787260 PC
34400 (V8)	67	N.A.	N.A.	N.A.	9793915 HG	9792489 NP	9797319 HW
	77	N.A.	N.A.	N.A.	9793915 HG	9792489 NP	9797319 HW
	87	N.A.	N.A.	N.A.	9793915 HG	9792489 NP	9797319 HW
34800 (V8)	55	N.A.	N.A.	9797509 HQ	9797509 HQ	SAME AS STANDARD CAR	9787052 PO
	65	N.A.	N.A.	9797509 HQ	9797509 HQ	SAME AS STANDARD CAR	9792945 P2

TAPE IDENTIFICATION: HIGH LOAD RANGE - PLAIN IDENTIFICATION.
LOW LOAD RANGE - BLACK CIRCLE AROUND CODE LETTER.

FOR SPRING DETAIL SEE DRAWING 9787042.

USE HIGH RANGE SPRING ON L. H. SIDE OF CAR AND LOW RANGE ON R. H. SIDE.

TEMPORARY USAGE:
WHEN BOTH SPRING RANGES ARE NOT AVAILABLE USE SAME RANGE SPRING ON BOTH SIDES OF CAR.

TO READ CHART:

READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS COMPLETELY SATISFIED WILL INDICATE THE SPRINGS TO BE USED ON THAT MODEL. IF NONE OF THE CONDITIONS ABOVE ARE SATISFIED, THE LAST COLUMN IS STANDARD CAR (LESS ALL OPTIONS SHOWN TO THE LEFT OF IT) AND WILL INDICATE THE SPRINGS TO BE USED.

DATE	SYM	REVISION	DR.	CK.
7-9-68	D	WAS 9787054 NH		
7-4-68	C	WAS 9787053 PC		
3-21-68	B	REVISED		
3-7-68	A	WAS HI CODE		
10-3-68	E	REVISED		

TITLE: CHART - REAR SPRING USAGE
DATE: FEB. 26, 1968
DR. BY: DON MALKIN
CHECKED: J. [illegible]
APPR.: [illegible]
APPR.:
FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC.: 4
PAGE: 100
REF.:
SERIES: A
PART NO.: 403616

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN

OLDSMOBILE PRODUCT INFORMATION MANUAL — SERIES A — MANUAL SEC. 4 — PAGE 104 — SHEET 1 OF 5 — PART NO. 402728 — FIRST USED 1969

TITLE: CHART - REAR AXLE USAGE

DATE FEB. 12, 1968 — DR. BY BILL SCHMIDT — CHECKED J. [illegible] — APPR. [illegible]

1969	T	M40 ADDED		
2-14-68	S	LINES REVISED		
2-14-68	R	LINES ADDED		
2-14-68	P	COLUMN ADDED		

PLAINS ← Ⓢ → PERFORMANCE

SERIES	ENGINE	TRANSMISSION	AXLE RATIOS 2.56 (G96)	2.78 (G95)	3.08 (G90)	3.23 (G91)	★3.42 (G92)	★3.91 (G88)	★4.33 (G89)	DEALER INSTALLED 4.33 (90-4)	4.66 (90-4)	5.00 (90-4)
33100 F-85 33500 CUTLASS	250 L6 1 BBL. (S) LOW AND L90 EXPORT	SM		S	A	A						
		M31		S	A	A						
		SM, M31 WITH C60			S	A						
33200 F-85	350 2 BBL. LOW (S) AND L90 EXPORT	SM, M14		A	S	A	A	A		A	A	A
		M20			S	A	A			A	A	A
		M21					S	A		A	A	A
	Ⓣ	M31, M40 ●	S	A	A	A	A	A		A	A	A
		M31 WITH C60/Y72	A	S	A	A						
	350 4 BBL. HIGH (L74)	SM, M14		A	S	A	A	A		A	A	A
		M20			S	A	A			A	A	A
		M21					S	A		A	A	A
	Ⓢ	M38, M40 ●	A	S	A	A	A	A		A	A	A
	350 4 BBL. (W31 OPTION)	M14, M20					A	S	A	A	A	A
		M21					A	A	S	A	A	A
	Ⓢ	M38					A	S	A	A	A	A
33600 CUTLASS	350 2 BBL. LOW (S) AND L90 EXPORT	SM, M14		A	S	A	A	A		A	A	A
		M20			S	A	A			A	A	A
		M21					S	A		A	A	A
	Ⓢ	M31	S	A	A	A	A	A		A	A	A
	Ⓡ	M31 WITH C60/Y72	A	S	A	A						
	Ⓢ	M38, M40 ●	S	A	A	A	A	A		A	A	A
	350 4 BBL. HIGH (L74)	SM, M14		A	S	A	A	A		A	A	A
		M20			S	A	A			A	A	A
		M21					S	A		A	A	A
	Ⓢ	M38, M40 ●	A	S	A	A	A	A		A	A	A
	350 4 BBL. (W31 OPTION)	M14, M20					A	S	A	A	A	A
		M21					A	A	S	A	A	A
	Ⓢ	M38					A	S	A	A	A	A
34200 CUTLASS SUPREME	350 4 BBL. HIGH (S) AND 350 2 BBL. LOW (L65) AND L90 EXPORT	SM, M14		A	S	A	A	A		A	A	A
		M20			S	A	A			A	A	A
		M21					S	A		A	A	A
	Ⓢ	M38, M40 ●	S	A	A	A	A	A		A	A	A
34400 4-4-2	400 4 BBL. HIGH (S)	SM (M14)			A	S	A	A		A	A	A
		M20			A	A	S			A	A	A
		M20 WITH C60/Y72			A	S						
		M21					A	S		A	A	A
		Ⓝ M40	A	A	A	S	A	A		A	A	A
	400 4 BBL. (W30 OPTION)	M21					A	A	S	A	A	A
		M40					S	A	A	A	A	A
	Ⓡ 400 4 BBL. (W32 OPTION)	M40					S	A	A	A	A	A
34800 VISTA-CRUISER	350 2 BBL. LOW (S) AND L90 EXPORT	SM, M20				S						
		M40		S	A	A						
	350 4 BBL. HIGH (L74)	SM, M20				S						
		M40		A	S	A						
	400 4 BBL. HIGH (L31)	M40		S	A							

Ⓟ

S - STANDARD
A - AVAILABLE
● - DENOTES LIMITED PRODUCTION RUN FOR M40 USAGE

SM - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION
M14 - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION (FLOOR SHIFT)
M20 - FULLY SYNCHRONIZED 4-SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (WIDE RATIO)
M21 - FULLY SYNCHRONIZED 4-SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (CLOSE RATIO)
M31 - 2-SPEED JETAWAY TRANSMISSION
M38 - 3-SPEED TURBO - HYDRAMATIC "350" TRANSMISSION
M40 - 3-SPEED TURBO-HYDRAMATIC "400" TRANSMISSION

C60 - AIR CONDITIONING
Y72 - HEAVY DUTY COOLING

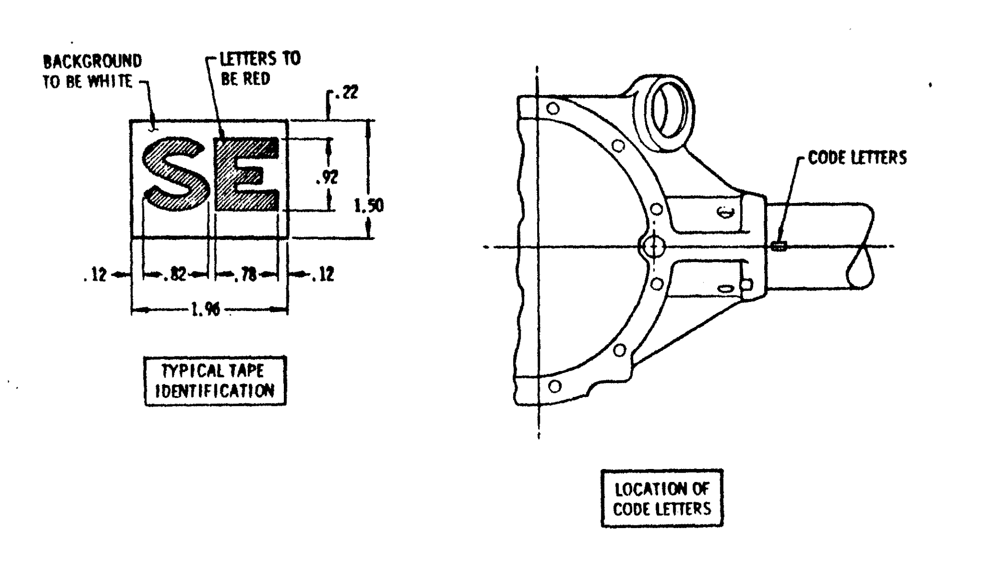
★ 3.42 (G92), 3.91 (G88) OR 4.33 (G89) NOT AVAILABLE WITH C60/Y72

DEALER MUST NOT INSTALL [illegible]

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

SERIES	L.O. AXLE ASM. 402729	CODE	RATIO	AXLE SUB-ASM. CHART 402762	DIFFERENTIAL CARRIER ASM. CHART 402641	DIFFERENTIAL CARRIER ASM. GEAR TEETH	AXLE SHAFT ASSEMBLY	BRAKE ASSEMBLY	BRAKE DRUM ASSEMBLY
STANDARD TYPE DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32, 36, 42, 4400 EXC. JL2	402730	R2	2.56	402763	402642	41-16	393906 (B)	5463508-R. H. 5463507-L. H.	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788681
	402731	SA	2.78	402764	402643	39-14			
	402732	SC	3.08	402765	402644	40-13			
	402733	SE	3.23	402766	402645	42-13			
STANDARD TYPE DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32 36, 42, 4400 WITH JL2	402736	R6	2.56	402763	402642	41-16	393906 (B)	5470598-R. H. 5470597-L. H. (D)	M. W. 398456-R. H. 398457-L. H. OR K. H. 9788681
	402737	S2	2.78	402764	402643	39-14			
	402738	S4	3.08	402765	402644	40-13			
	402739	S6	3.23	402766	402645	42-13			
STANDARD TYPE DIFFERENTIAL									
4800	402742	TA	2.78	402769	402643	39-14	403305	5463511-L. H. 5463512-R. H.	1368329
	402743	SM	3.08	402770	402644	40-13			
	402744	SO	3.23	402771	402645	42-13			



THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB-ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

PART NO.	QUANTITY		DESCRIPTION
	1	AXLE SUB ASSEMBLY	- REAR (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY	- REAR - L. & R.
396379	2	GASKET	- WHEEL BEARING (EXCEPT 4800)
414999	8	BOLT	- BRAKE TO AXLE
2474997	8	NUT	- BRAKE TO AXLE
SEE CHART	2	SHAFT ASSEMBLY	- REAR AXLE
SEE CHART	2	DRUM ASSEMBLY	- REAR BRAKE
358501	4	NUT (ASSEMBLY PLANTS)	- DRUM TO AXLE
1382429	2	CABLE ASSEMBLY	- REAR PARKING BRAKE
1384690	*	CABLE ASSEMBLY	- REAR PARKING BRAKE (OPTION)
(C) 404283	*	CABLE ASSEMBLY	- REAR PARKING BRAKE (OPTION)
9416029	4	NUT (SPRING) (LANSING)	- DRUM TO AXLE
3820840	1	VENT ASSEMBLY	- REAR AXLE

THIS REPRESENTS AXLE AS USED AT LANSING PLANT AND AS SHIPPED TO G.M.A.D. PLANTS. FOR ASSEMBLY INFORMATION, SEE 402729. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY THE ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

PRODUCTION SAMPLE TO BE TESTED AND APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS.

SHEET 2

DATE	SYM	REVISION	DR.	CK.
1-29-69	D	WAS 5463509-10		
7-3-68	C	404283 ADDED		
6-6-68	B2	3.42 & 3.91 RATIOS REMOVED		
5-14-68	A	REVISED		

TITLE	CHART - REAR AXLE USAGE
DATE	FEB. 7, 1968
DR. BY	J. E. CASLER
CHECKED	J. Ames
APPR.	T. R. LEONARD
APPR.	
FIRST USED	1969
REF.	
OLDSMOBILE PRODUCT INFORMATION MANUAL	
MANUAL SEC.	4
PAGE	105
SERIES	A
PART NO.	402728

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

EQUIPMENT	L.O. AXLE ASM. 402729	CODE	RATIO	AXLE SUB-ASM. CHART 402762	DIFFERENTIAL CARRIER ASM. CHART 402641	DIFFERENTIAL CARRIER ASM. GEAR TEETH	AXLE SHAFT ASSEMBLY	BRAKE ASM.	BRAKE DRUM ASM.
LIMITED SLIP DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32, 36, 42, 4400 EXC. JL2	402745	R3	2.56	402772	402648	41-16	393906	5463509-R.H. 5463508-L.H.	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788683
	402746	SB	2.78	402773	402649	39-14			
	402747	SD	3.08	402774	402650	40-13			
	402748	SF	3.23	402775	402651	42-13			
	402749	TM	3.42	402776	402652	41-12	405601		
	402750	TO	3.91	402777	402653	43-11			
	402758	TY	4.33	402778	402654	39-9			
LIMITED SLIP DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32, 36, 42, 4400 WITH JL2 EXC. W46	402752	R7	2.56	402772	402648	41-16	393906	5470598-R.H. 5470597-L.H. (B)	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788683
	402753	S3	2.78	402773	402649	39-14			
	402754	S5	3.08	402774	402650	40-13			
	402755	S7	3.23	402775	402651	42-13			
	402756	S9	3.42	402776	402652	41-12	405607		
	402757	T3	3.91	402777	402653	43-11			
4400 JL2 WITH W46 (C) (D)	406222	SH	3.23	402775	402651	42-13	393906	5470703-R.H. 5470702-L.H.	
	406223	SJ	3.42	402776	402652	41-12	405601		
	406224	SL	3.91	402777	402653	43-11			
LIMITED SLIP DIFFERENTIAL									
4800	402759	TB	2.78	402779	402649	39-14	405305	5463513-RH 5463512-LH	1368529
	402760	SN	3.08	402780	402650	40-13			
	402761	SP	3.23	402781	402651	42-13			

BACKGROUND TO BE WHITE

LETTERS TO BE RED

SF

.22 .92 1.50 .12 .82 .78 .12 1.96

TYPICAL TAPE IDENTIFICATION

CODE LETTERS

LOCATION OF CODE LETTERS

THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB-ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

PART NO.	QUANTITY		DESCRIPTION
	1	AXLE SUB ASSEMBLY	- REAR (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY	- REAR - L. & R.
396379	2	GASKET	- WHEEL BEARING (EXC. 4800)
414999	8	BOLT	- BRAKE TO AXLE
2474997	8	NUT	- BRAKE TO AXLE
SEE CHART	2	SHAFT ASSEMBLY	- REAR AXLE
SEE CHART	2	DRUM ASSEMBLY	- REAR BRAKE
358508	4	NUT (ASSEMBLY PLANTS)	- DRUM TO AXLE
1382429	2	CABLE ASSEMBLY	- REAR PARKING BRAKE
1384690	•	CABLE ASSEMBLY	- REAR PARKING BRAKE (OPTION)
(A) 404283	•	CABLE ASSEMBLY	- REAR PARKING BRAKE (OPTION)
9416029	4	NUT (SPRING) (LANSING)	- DRUM TO AXLE
3820840	1	VENT ASSEMBLY	- REAR AXLE

THIS REPRESENTS AXLE AS USED AT LANSING PLANT AND AS SHIPPED TO G.M.A.D. PLANTS. FOR ASSEMBLY INFORMATION, SEE 402729. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY THE ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

PRODUCTION SAMPLE TO BE TESTED AND APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS.

SHEET 3

DATE	SYM	REVISION		
9-19-68	D	CODE WAS SX	LS	JF
3-11-68	C	W46 ADDED	KL	JF
4-30-68	B	WAS 5463509-D	PJ	JF
7-3-68	A	404283 ADDED	RN	JF

TITLE: CHART - REAR AXLE USAGE

DATE: FEB. 6, 1968
DR. BY: GALE GRAY
CHECKED: J. Ames
APPR.: H. J. B. Page

FIRST USED: 1969

OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SEC.: 4 PAGE: 106

SERIES: A

PART NO.: 402728

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

SERIES	ENGINE	TRANSMISSION	PLAINS ← Ⓢ → PERFORMANCE AXLE RATIOS 2.56 (G96)	2.73 (G95)	3.07 (G90)	3.31 (G91)	3.55 (G92) ★	3.73 (G88) ★
33100 F-85 33500 CUTLASS	250 L6 1 BBL. (S) LOW AND L90 EXPORT	SM		S	A	A		
		M31		S	A	A		
		SM, M31 WITH C60			S	A		
33200 F-85	350 2 BBL. LOW (S) AND L90 EXPORT	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M31	S	A	A	A	A	A
		M31 WITH C60/Y72	A	S	A	A		
	350 4 BBL. HIGH (L74)	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M38	A	S	A	A	A	A
33600 CUTLASS	350 2 BBL. LOW (S) AND L90 EXPORT	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M31	A	S	A	A	A	A
		M38	S	A	A	A	A	A
	350 4 BBL. HIGH (L74)	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M38	A	S	A	A	A	A
34200 CUTLASS SUPREME	350 4 BBL. HIGH (S) AND 350 2 BBL. LOW (L65) AND L90 EXPORT	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M38	S	A	A	A	A	A
34400 4-4-2	400 4 BBL. HIGH (S)	SM (M14)			A	S	A	A
		M20			A	A	S	
		M20 WITH C60/Y72			A	S		
		M21					A	S
		Ⓑ M40	A	A	A	S	A	A

S - STANDARD
A - AVAILABLE

SM - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION
M14 - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION (FLOOR SHIFT)
M20 - FULLY SYNCHRONIZED 4-SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (WIDE RATIO)
M21 - FULLY SYNCHRONIZED 4-SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (CLOSE RATIO)
M31 - 2-SPEED JETAWAY TRANSMISSION
M38 - 3-SPEED TURBO HYDRAMATIC "350" TRANSMISSION
M40 - 3-SPEED TURBO HYDRAMATIC "400" TRANSMISSION

C60 - AIR CONDITIONING
Y72 - HEAVY DUTY COOLING

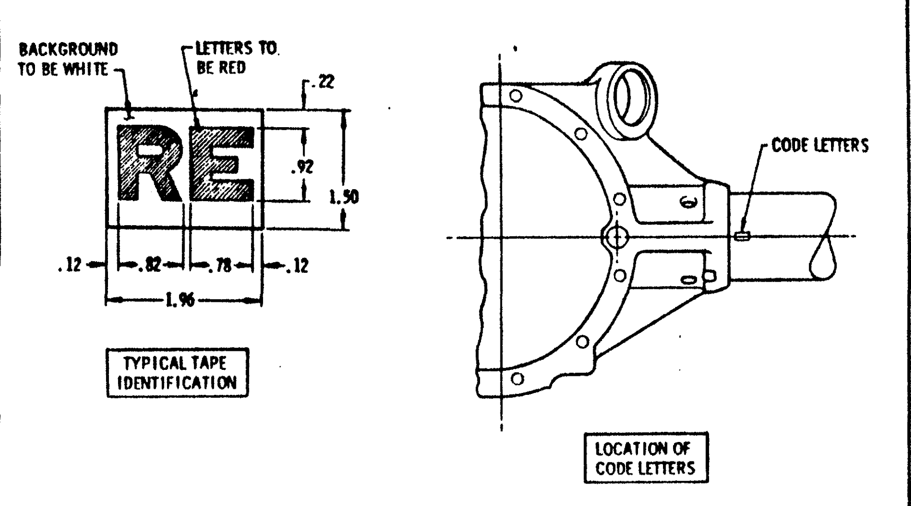
Ⓐ 3.55 (G92), 3.73 (G88) NOT AVAILABLE WITH C60/Y72

G80 (LIMITED SLIP OPTION) AVAILABLE ON 2.56, 2.73, 3.07, 3.31 RATIOS.

Ⓐ ★ G80 (LIMITED SLIP OPTION) MANDATORY ON 3.55, 3.73 RATIOS

TITLE CHART - REAR AXLE USAGE (G.M. OF CANADA - OSHAWA)
OLDSMOBILE PRODUCT INFORMATION MANUAL
SHEET 4 | PAGE 107 | MANUAL SEC. 4 | PART NO. 402728
SERIES A | FIRST USED 1969
DATE JULY 15, 1968
REVISION: USAGE REVISED

EQUIPMENT	L.O. AXLE ASM 1833708	CODE	RATIO		DIFFERENTIAL CARRIER ASM: CHART 1825069	DIFFERENTIAL CARRIER ASM: GEAR TEETH	AXLE SHAFT ASM.	BRAKE ASM.	BRAKE DRUM ASM.
STANDARD DIFFERENTIAL									
	403474	R8	2.56		1825076	41-16			
	403475	RA	2.73		1825072	41-15	1384242	1231299-L. H.	1386562
	403476	RC	3.07		1825070	43-14		1231298-R. H.	
	403477	RE	3.31		1825074	43-13			
LIMITED SLIP DIFFERENTIAL									
	403480	R9	2.56		1825077	41-16			
	403481	RB	2.73		1825073	41-15			
	403482	RD	3.07		1825071	43-14			
	403483	RF	3.31		1825075	43-13	1384242	1231299-L. H.	1386562
	404497	TL	3.55		1825079	39-11		1231298-R. H.	
	404498	TN	3.73		1833834	41-11			



THE FOLLOWING COMPONENT PARTS ARE REQUIRED FOR USE WITH DIFFERENTIAL CARRIER ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE.

PART NO.	QUANTITY	DESCRIPTION	
	1	DIFF. CARRIER ASM	- (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY	- REAR - R. & L.
186644	8	BOLT	- FLANGE PLATE TO AXLE
103321	8	WASHER (LOCK)	- FLANGE PLATE TO AXLE
103026	8	NUT	- FLANGE PLATE TO AXLE
7451405	2	BEARING	- REAR WHEEL
3832418	2	SEAL ASSY	- REAR WHEEL BEARING
SEE CHART	2	SHAFT ASSEMBLY	- REAR AXLE
3833322	2	LOCK	- AXLE SHAFT
SEE CHART	2	DRUM ASSEMBLY	- REAR BRAKE
3656898	6	NUT (SPRING)	- DRUM TO AXLE
1382429	2	CABLE ASSEMBLY	- REAR PARKING BRAKE
3820840	1	VENT ASSEMBLY	- REAR AXLE

THIS REPRESENTS AXLE AS USED BY G.M. OF CANADA (OSHAWA). FOR ASSEMBLY INFORMATION, SEE 1833708. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

DATE	SYM	REVISION	DR	CK.
8E268	A	REVISED	RE	JH

TITLE: CHART - REAR AXLE USAGE (G.M. OF CANADA - OSHAWA) — SHEET 5

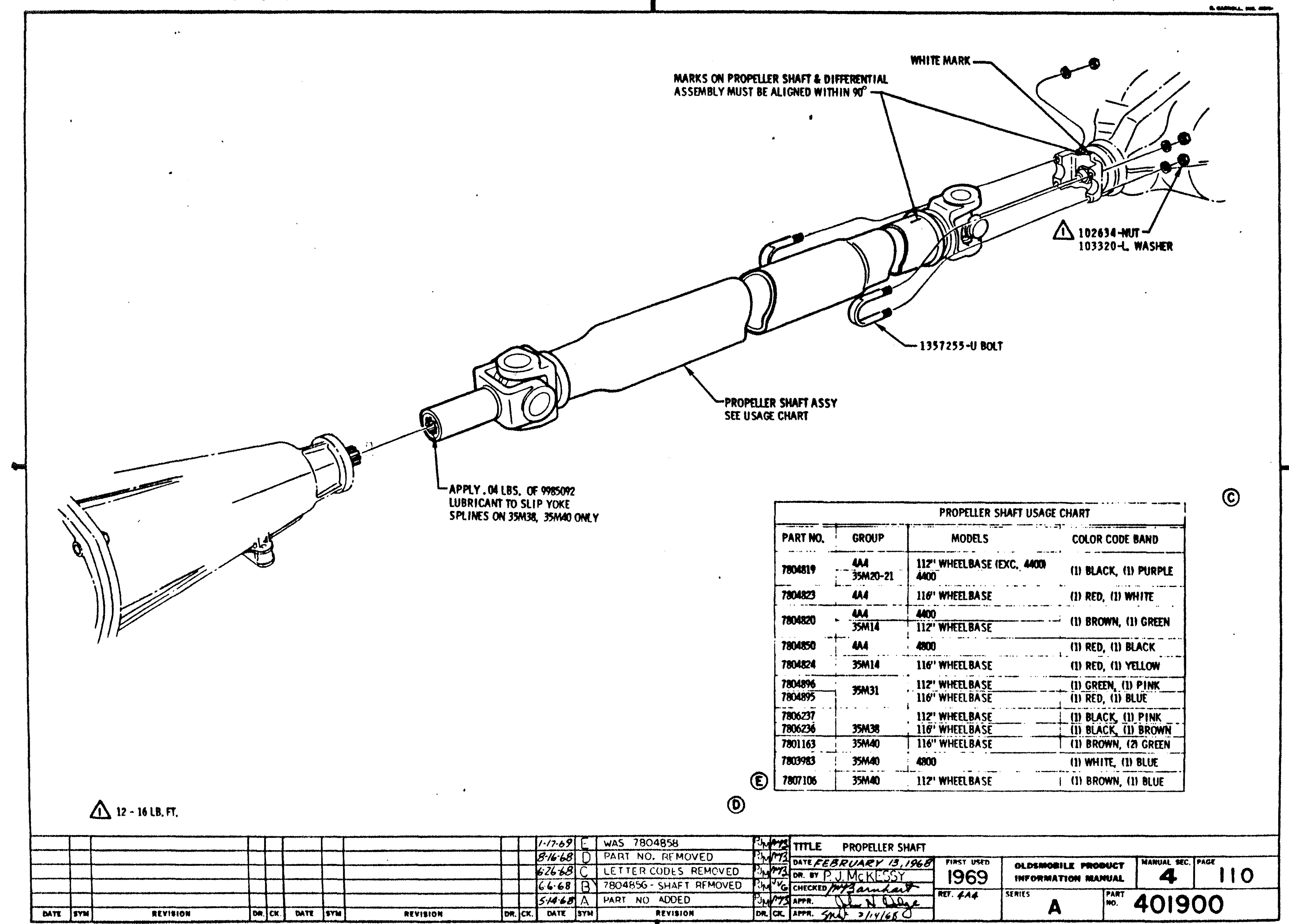
DATE: JULY 16, 1968 — DR. BY: BOB HOLT — CHECKED: J. Himes — APPR.: [illegible] — APPR.:

FIRST USED: 1969 — REF.:

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SERIES: A — PART NO. 402728

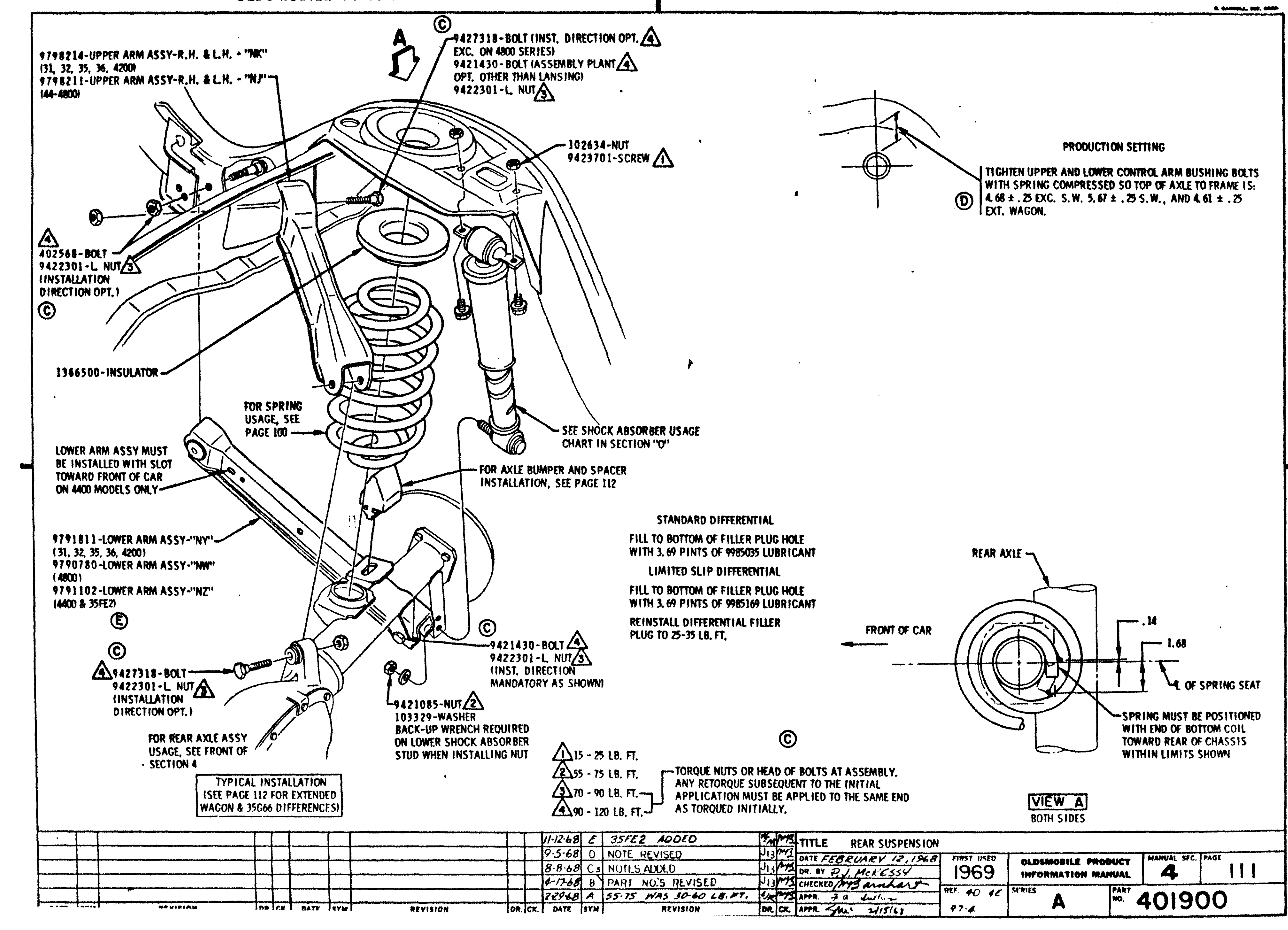


PART NO.	GROUP	MODELS	COLOR CODE BAND
7804819	4A4 35M20-21	112" WHEELBASE (EXC. 4400) 4400	(1) BLACK, (1) PURPLE
7804823	4A4	116" WHEELBASE	(1) RED, (1) WHITE
7804820	4A4 35M14	4400 112" WHEELBASE	(1) BROWN, (1) GREEN
7804850	4A4	4800	(1) RED, (1) BLACK
7804824	35M14	116" WHEELBASE	(1) RED, (1) YELLOW
7804896	35M31	112" WHEELBASE	(1) GREEN, (1) PINK
7804895		116" WHEELBASE	(1) RED, (1) BLUE
7806237		112" WHEELBASE	(1) BLACK, (1) PINK
7806236	35M38	116" WHEELBASE	(1) BLACK, (1) BROWN
7801163	35M40	116" WHEELBASE	(1) BROWN, (2) GREEN
7803983	35M40	4800	(1) WHITE, (1) BLUE
7807106	35M40	112" WHEELBASE	(1) BROWN, (1) BLUE

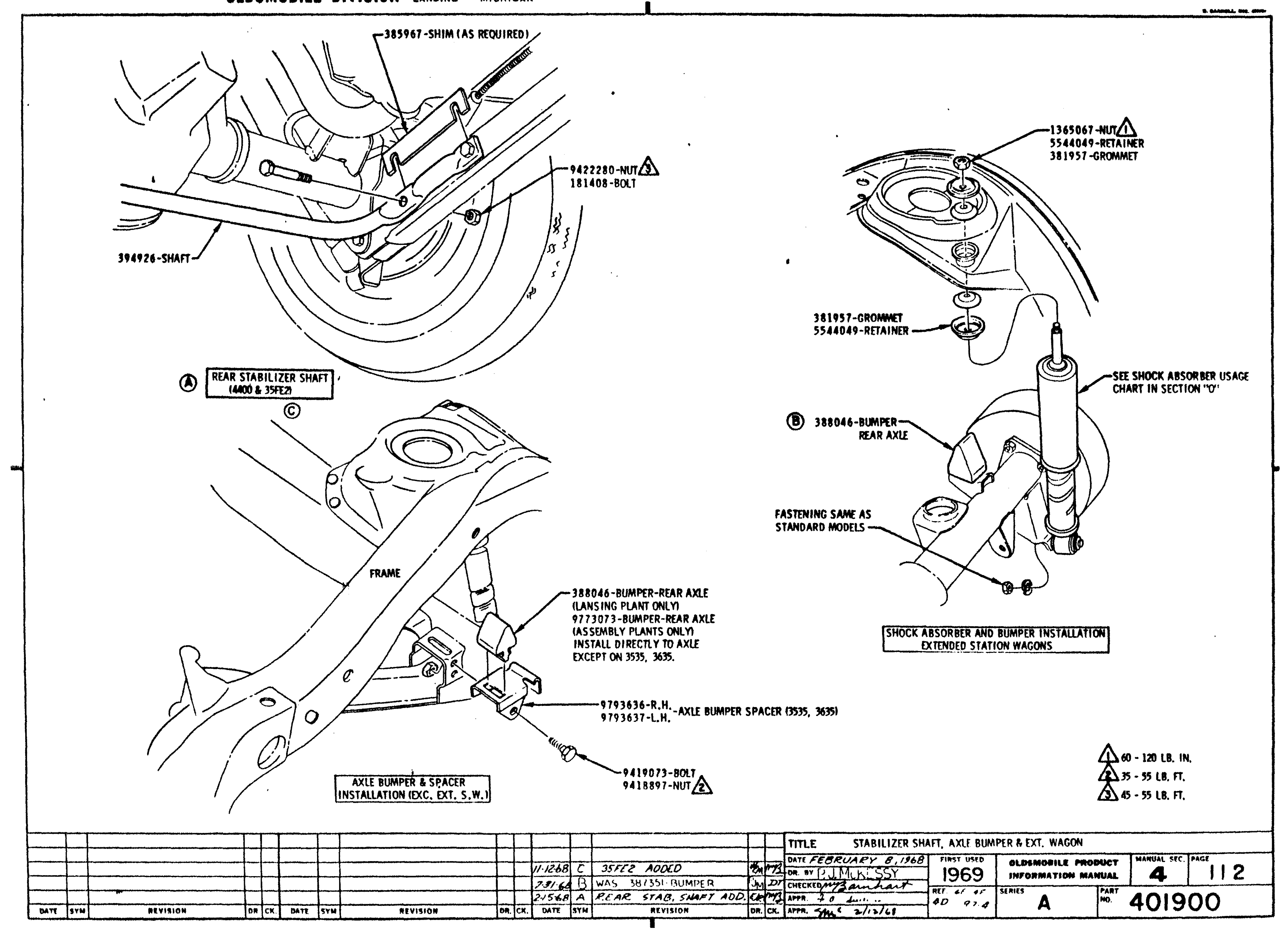
DATE	SYM	REVISION	DR.	CK.
1-17-69	E	WAS 7804858	PJM	MYB
8-16-68	D	PART NO. REMOVED	PJM	MYB
6-26-68	C	LETTER CODES REMOVED	PJM	MYB
6-6-68	B	7804856 - SHAFT REMOVED	PJM	JVG
5-14-68	A	PART NO ADDED	PJM	MYB

TITLE PROPELLER SHAFT
DATE FEBRUARY 13, 1968
DR. BY P. J. McKESSY
CHECKED MJ Barnhart
APPR. John N. Dodge
APPR. [signature] 2/14/68
FIRST USED 1969
REF. 4A4
OLDSMOBILE PRODUCT INFORMATION MANUAL
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SERIES A
PART NO. 401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN



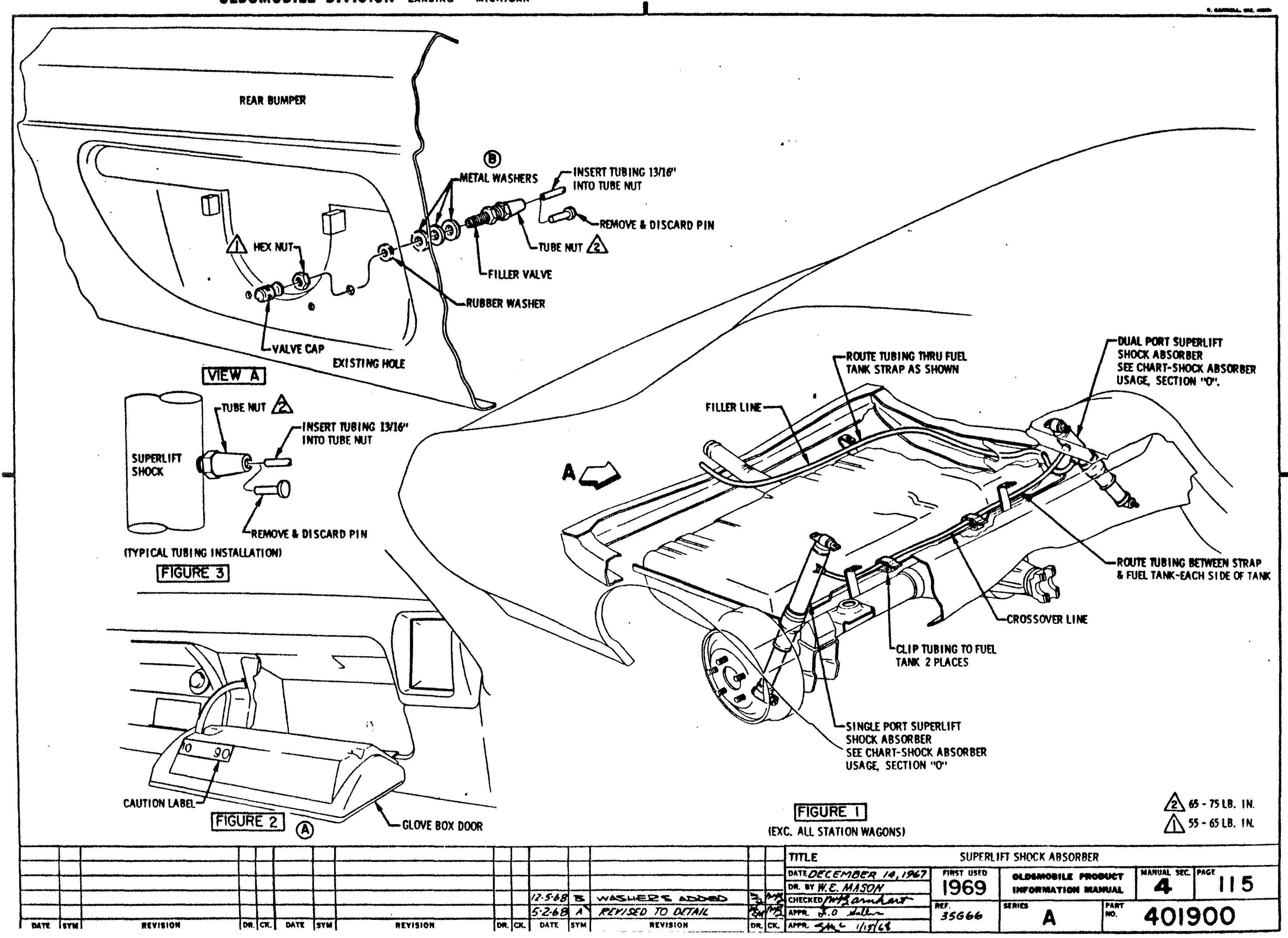
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN



DATE	SYM	REVISION	DR.	CK.
11-12-68	C	35FE2 ADDED		
7-31-68	B	WAS 387351-BUMPER		
2-15-68	A	REAR STAB. SHAFT ADD.		

TITLE: STABILIZER SHAFT, AXLE BUMPER & EXT. WAGON

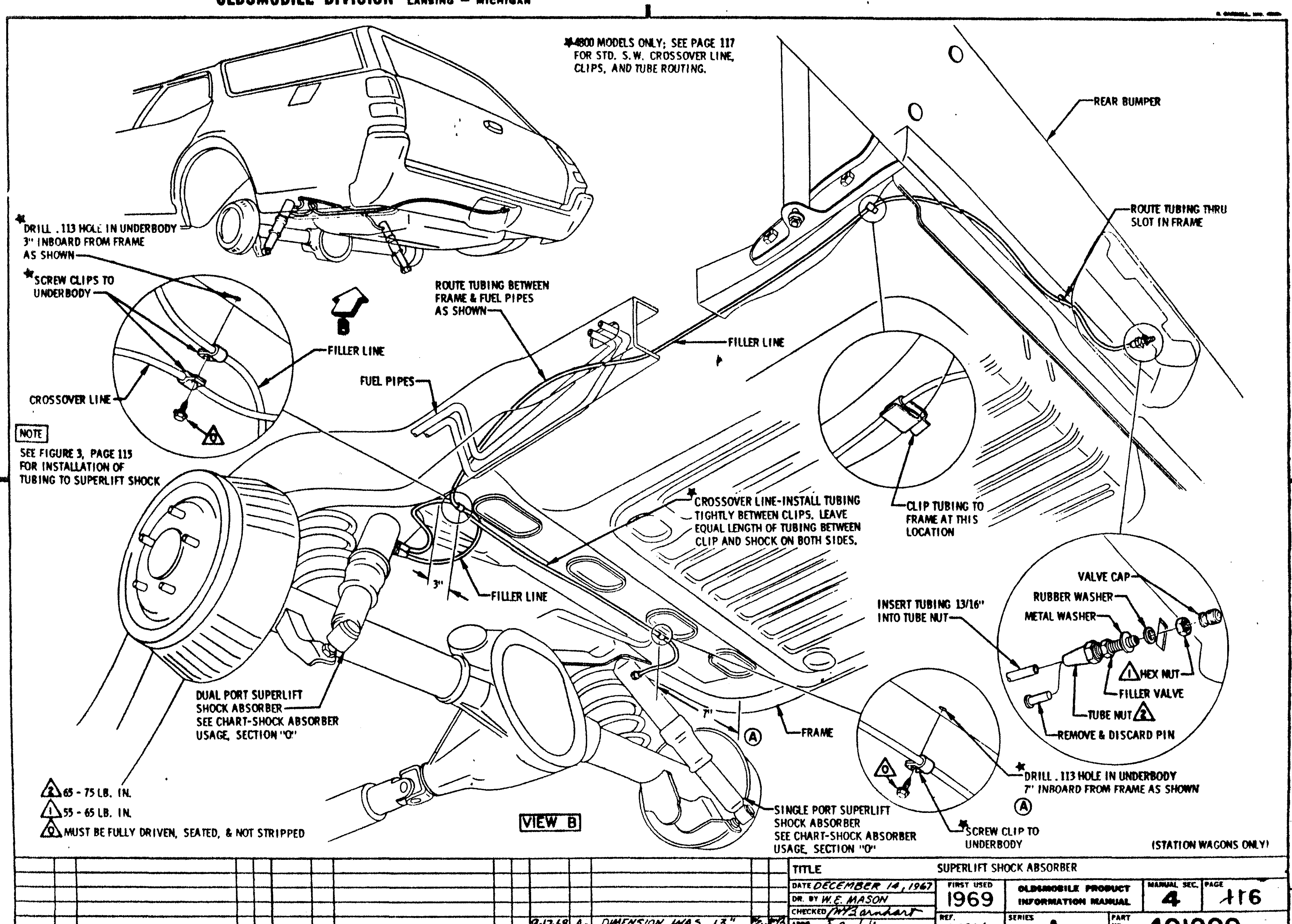
DATE: FEBRUARY 8, 1968
DR. BY: P.J. McKESSY
CHECKED: Barnhart
FIRST USED: 1969
REF. 4F 4F 4D 97.4
OLDSMOBILE PRODUCT INFORMATION MANUAL
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PAGE: 112
SERIES: A
PART NO.: 401900



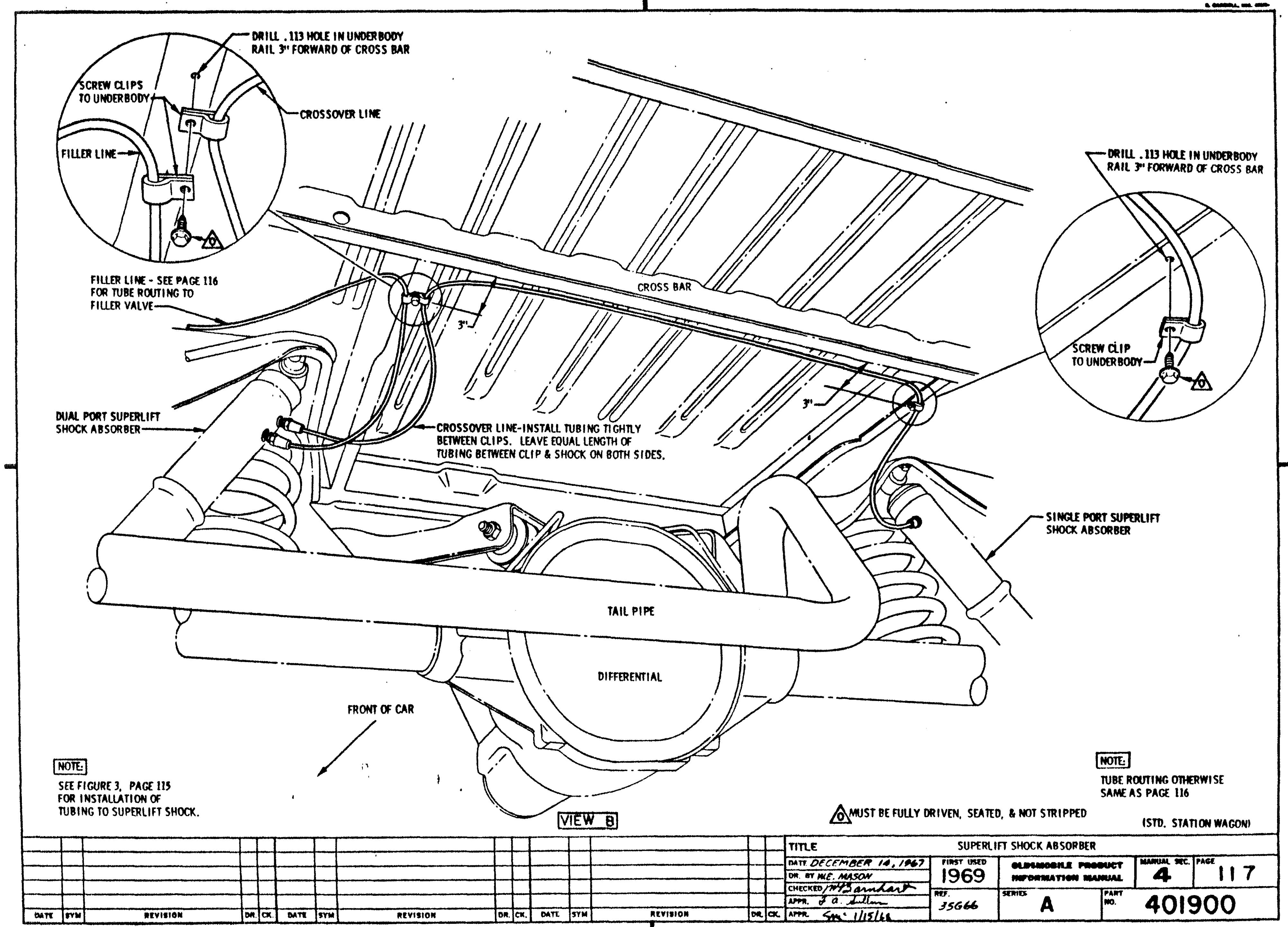
DATE	SYM	REVISION	DR.	CK.
12-5-68	B	WASHERS ADDED	[illegible]	[illegible]
5-2-68	A	REVISED TO DETAIL	[illegible]	[illegible]

TITLE	SUPERLIFT SHOCK ABSORBER
DATE	DECEMBER 14, 1967
DR. BY	W.E. MASON
CHECKED	[illegible] Barnhart
APPR.	J.O. [illegible]
APPR.	[illegible] 1/15/68
FIRST USED	1969
REF.	35G66
OLDSMOBILE PRODUCT INFORMATION MANUAL	
SERIES	A
MANUAL SEC.	4
PAGE	115
PART NO.	401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN



OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN



TITLE	SUPERLIFT SHOCK ABSORBER
DATE	DECEMBER 14, 1967
DR. BY	M.E. MASON
CHECKED	[handwritten signature]
APPR.	[handwritten signature]
APPR.	[handwritten] 1/15/68
FIRST USED	1969
REF.	35G66
SERIES	A
OLDSMOBILE PRODUCT INFORMATION MANUAL	
MANUAL SEC.	4
PAGE	117
PART NO.	401900

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

GENERAL INSTRUCTIONS

1. GUARD AGAINST KINKING NYLON TUBING, KINKED LINES WILL RESULT IN TUBING FAILURE.
2. AT EVERY PLUMBING CONNECTION, USE THE FOLLOWING PROCEDURE TO ASSEMBLE THE 1/8" DIAMETER BLACK TUBING PER FIGURE 3:
   - A. MARK TUBING WITH PENCIL 13/16" FROM END (SAME LENGTH AS TUBE NUT).
   - B. PULL PLASTIC PIN FROM END OF TUBE NUT AND DISCARD.
   - C. WITHOUT LOOSENING TUBE NUT, PUSH TUBING INTO TUBE NUT TO PENCIL MARK.
   - D. TIGHTEN TUBE NUT WITH WRENCH.
3. ATTACH "CAUTION" LABEL TO INSIDE OF GLOVE BOX DOOR PER FIGURE 2.
4. PLACE OWNERS GUIDE IN GLOVE BOX.

SUPERLIFT INSTALLATION

1. RAISE CAR ON A HOIST THAT WILL KEEP REAR WHEELS IN NORMAL RELATIONSHIP WITH CAR BODY. IF FRAME LIFTING TYPE HOIST IS USED, PLACE STANDS UNDER REAR AXLE TO MAINTAIN NORMAL WHEEL TO BODY RELATIONSHIP.
2. REMOVE REAR SHOCKS, RETAIN ATTACHING PARTS FOR INSTALLING SUPERLIFTS.
3. INSTALL DUAL PORT SUPERLIFT ON LEFT SIDE OF CAR AND SINGLE PORT UNIT ON RIGHT SIDE. PORTS WILL BE FACING INWARD TO CENTER OF CAR. TO AVOID TWISTING RUBBER SLEEVE, DO NOT ROTATE FREE END OF SUPERLIFT AFTER ONE END HAS BEEN ATTACHED.

FILLER VALVE INSTALLATION

1. ALL SEDANS AND COUPES
   - A. ATTACH FILLER VALVE TO FILLER LINE PER VIEW A.
   - B. INSERT FILLER VALVE THRU DEPRESSED HOLE IN BUMPER BEHIND LICENSE PLATE DOOR AND ATTACH TO BUMPER PER VIEW A.
2. ALL STATION WAGONS
   - A. REMOVE LICENSE PLATE. REMOVE R.H. PLASTIC NUT FROM BUMPER AND DISCARD.
   - B. ATTACH FILLER VALVE TO FILLER LINE PER VIEW B.
   - C. REPLACE LICENSE PLATE AND INSTALL FILLER VALVE THRU UPPER R.H. HOLE IN BUMPER AND LICENSE PLATE AND ATTACH HEX NUT PER VIEW B.

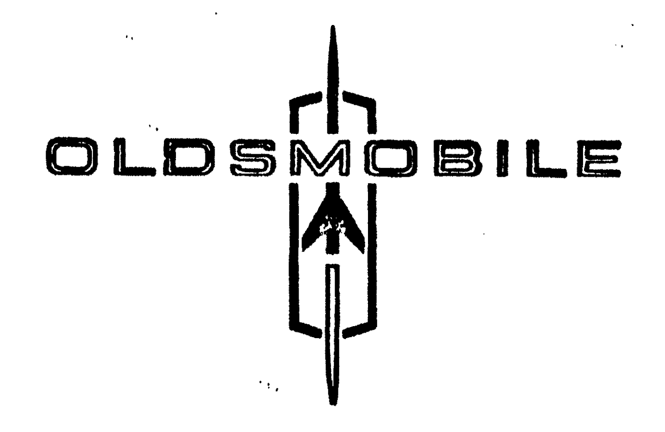
CROSSOVER AND FILLER LINE INSTALLATION

1. ALL SEDANS AND COUPES
   - A. FOR CROSSOVER LINE CUT A 37" LENGTH OF NYLON TUBING.
   - B. ROUTE CROSSOVER LINE BEHIND FUEL TANK SUPPORT STRAPS AND CLIP TO EDGE OF TANK WITH TWO METAL PUSH-ON CLIPS PER FIGURE 1. ATTACH ENDS OF CROSSOVER LINE TO SUPERLIFT AIR PORTS PER FIGURE 3. ON THE DUAL PORT SUPERLIFT, ATTACH CROSSOVER LINE TO TOP PORT PER FIGURE 3.
   - C. FOR FILLER LINE CUT A 65" LENGTH OF NYLON TUBING.
   - D. ROUTE FILLER LINE TUBING PER FIGURE 1 THRU FRAME INNER RAIL, BACK TO REAR OF FUEL TANK, PASSING BETWEEN FUEL TANK SUPPORT STRAP AND UNDERBODY AND OVER FUEL FILLER NECK TO FILLER VALVE.
   - E. ADJUST CROSSOVER AND FILLER LINES FOR MAXIMUM CLEARANCE FROM TAIL PIPE. LEAVE A GENEROUS LOOP AT SUPERLIFT PORTS TO ALLOW FOR SUPERLIFT MOVEMENT WITH AXLE JOUNCE.
2. ALL STATION WAGONS
   - A. FOR CROSSOVER LINE CUT A 47 1/2" LENGTH OF NYLON TUBING.
   - B. ROUTE AND CLIP CROSSOVER LINE TO UNDERBODY PER VIEW B. ATTACH ENDS OF CROSSOVER LINE TO SUPERLIFT AIR PORTS PER FIGURE 3. ON THE DUAL PORT SUPERLIFT ATTACH CROSSOVER LINE TO TOP PORT PER VIEW B.
   - C. FOR FILLER LINE CUT AN 80" LENGTH OF NYLON TUBING.
   - D. ROUTE FILLER LINE TUBING PER VIEW B THRU NYLON CLIP ON UNDERBODY AND ALONG FRAME SIDE RAIL TO REAR OF CAR. CLIP TUBING TO SIDE RAIL USING METAL PUSH-ON CLIP PER VIEW B. CONTINUE ROUTING TUBING ALONG REAR OF FRAME TO FILLER VALVE.
   - E. ADJUST CROSSOVER AND FILLER LINES FOR MAXIMUM CLEARANCE FROM TAIL PIPE. LEAVE A GENEROUS LOOP AT SUPERLIFT PORTS TO ALLOW FOR SUPERLIFT MOVEMENT WITH AXLE JOUNCE.

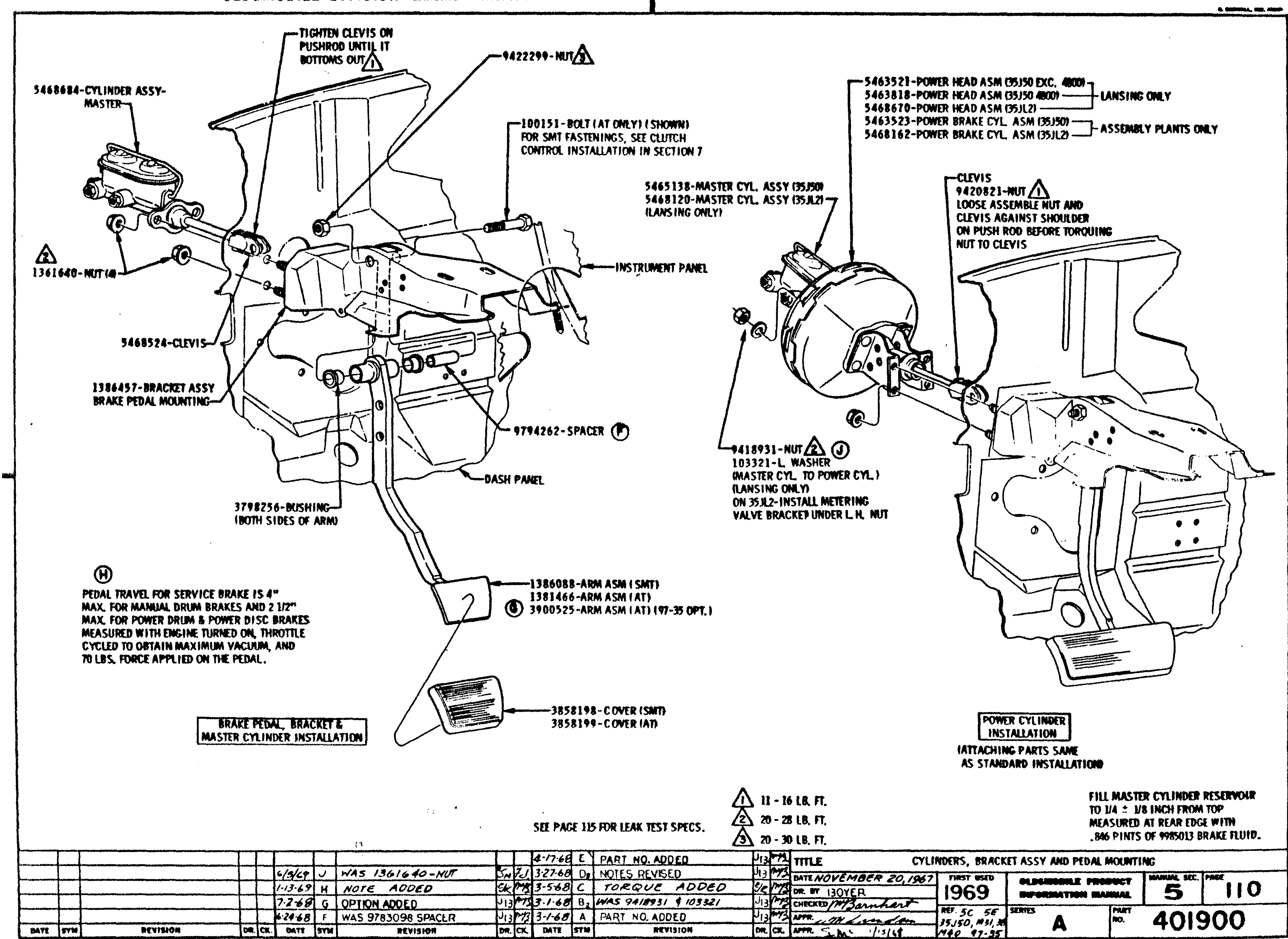
LEAK CHECK

1. FILL SUPERLIFT SYSTEM THROUGH FILLER VALVE WITH AIR TO 100 PSI PRESSURE.
2. CHECK ALL FITTINGS FOR LEAKS WITH GAS LEAK DETECTOR, LIQUID DETERGENT, OR A SOAP AND WATER SOLUTION. CORRECT ANY LEAKS FOUND.
3. EXHAUST AIR FROM SYSTEM BY DEPRESSING STEM IN FILLER VALVE NECK. RETAIN A MINIMUM PRESSURE OF 10 PSI.
4. PARTS NOT USED MAY BE DISCARDED AFTER INSTALLATION IS COMPLETE.

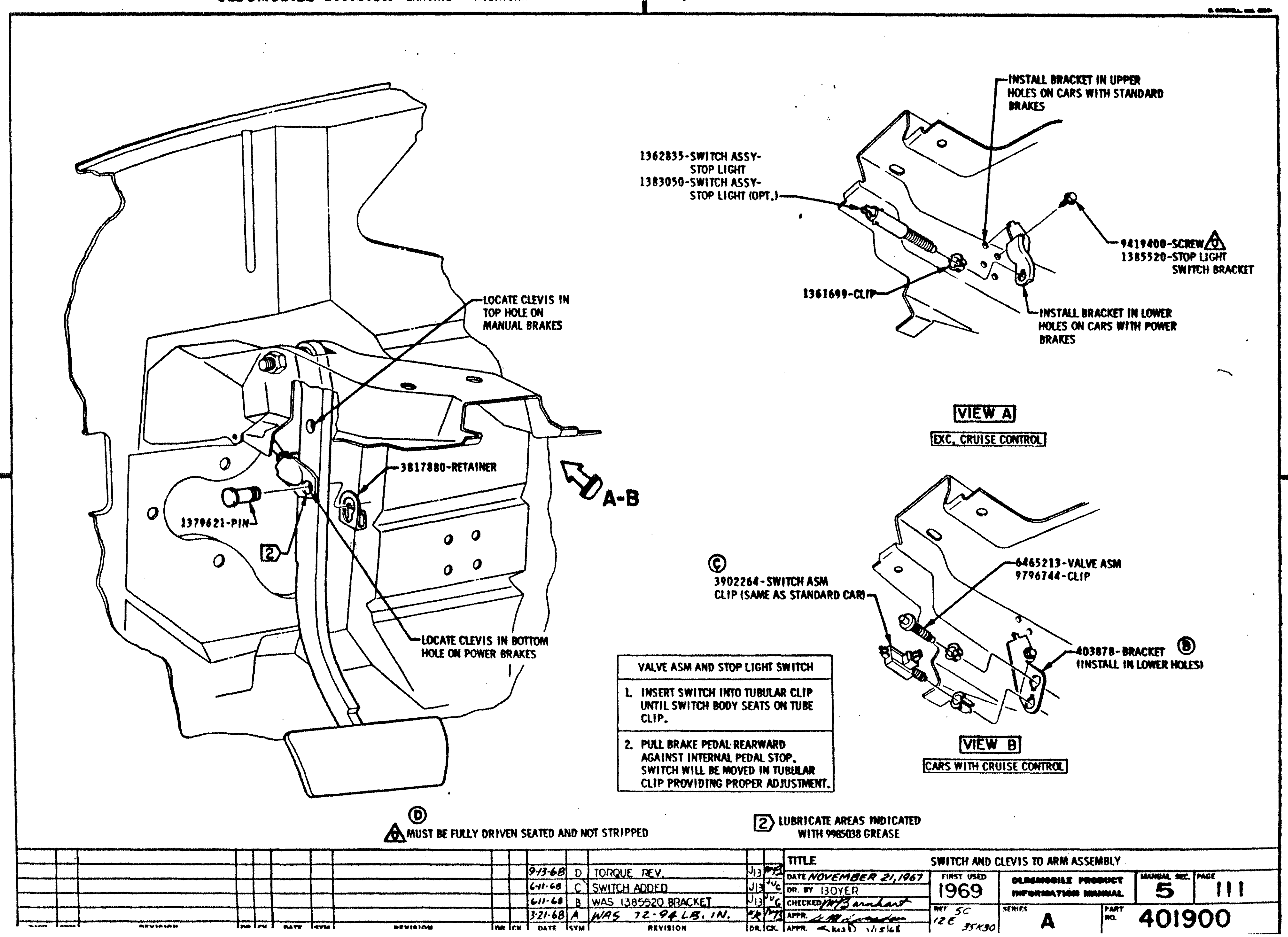
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

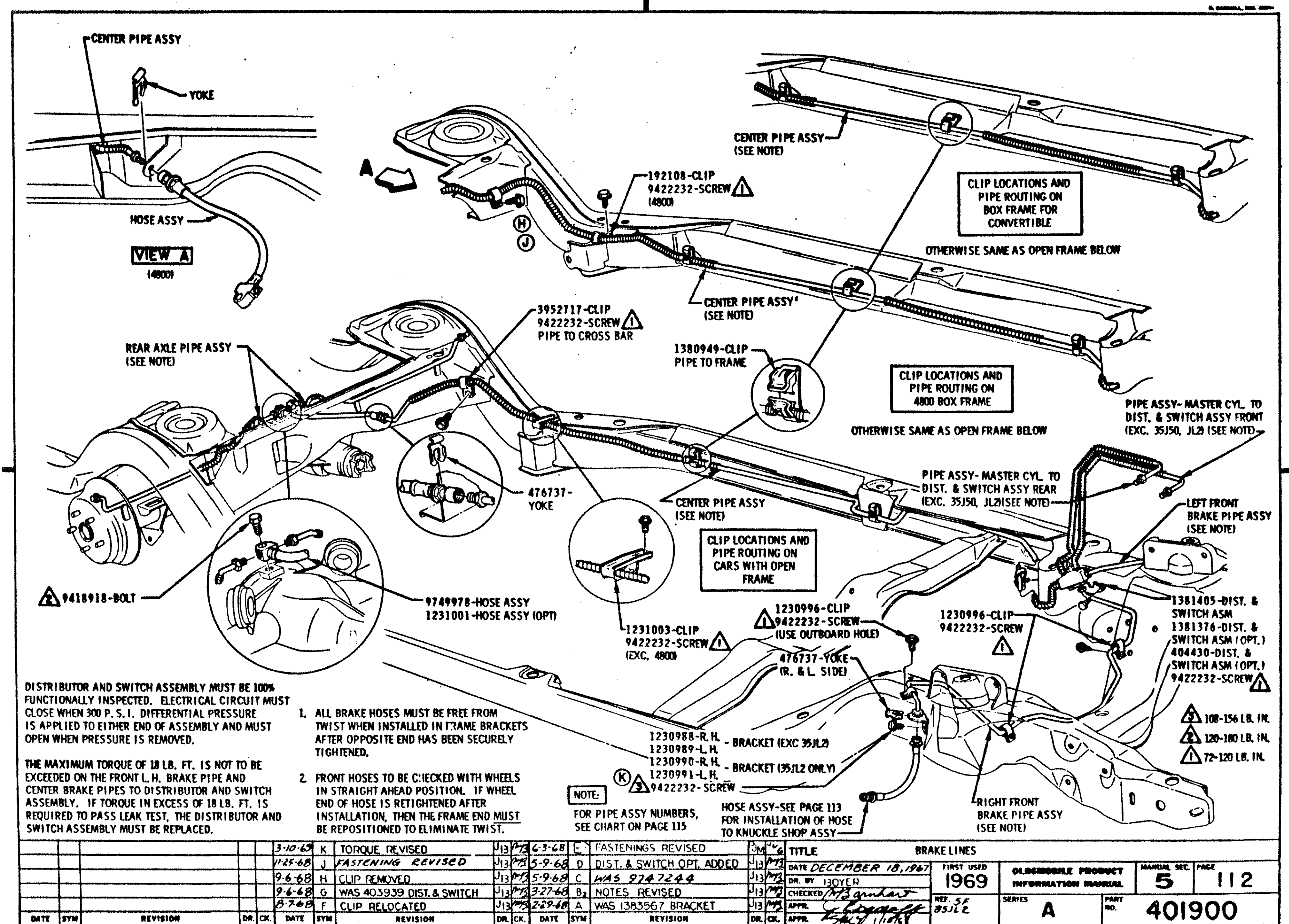


SECTION 5 BRAKE SYSTEM


TIGHTEN CLEVIS ON PUSHROD UNTIL IT BOTTOMS OUT 1
9422299-NUT 3
5468684-CYLINDER ASSY-MASTER
100151-BOLT (AT ONLY) (SHOWN) FOR SMT FASTENINGS, SEE CLUTCH CONTROL INSTALLATION IN SECTION 7
2 1361640-NUT (4)
INSTRUMENT PANEL
5468524-CLEVIS
1386457-BRACKET ASSY BRAKE PEDAL MOUNTING
9794262-SPACER F
DASH PANEL
3798256-BUSHING (BOTH SIDES OF ARM)
H
PEDAL TRAVEL FOR SERVICE BRAKE IS 4" MAX. FOR MANUAL DRUM BRAKES AND 2 1/2" MAX. FOR POWER DRUM & POWER DISC BRAKES MEASURED WITH ENGINE TURNED ON, THROTTLE CYCLED TO OBTAIN MAXIMUM VACUUM, AND 70 LBS. FORCE APPLIED ON THE PEDAL.
1386088-ARM ASM (SMT)
1381466-ARM ASM (AT)
G 3900525-ARM ASM (AT) (97-35 OPT.)
3858198-COVER (SMT)
3858199-COVER (AT)
BRAKE PEDAL, BRACKET & MASTER CYLINDER INSTALLATION
5463521-POWER HEAD ASM (35J50 EXC. 4800)
5463818-POWER HEAD ASM (35J50 4800)
5468670-POWER HEAD ASM (35JL2)
LANSING ONLY
5463523-POWER BRAKE CYL. ASM (35J50)
5468162-POWER BRAKE CYL. ASM (35JL2)
ASSEMBLY PLANTS ONLY
5465138-MASTER CYL. ASSY (35J50)
5468120-MASTER CYL. ASSY (35JL2)
(LANSING ONLY)
CLEVIS
9420821-NUT 1
LOOSE ASSEMBLE NUT AND CLEVIS AGAINST SHOULDER ON PUSH ROD BEFORE TORQUING NUT TO CLEVIS
9418931-NUT 2 J
103321-L. WASHER (MASTER CYL. TO POWER CYL.) (LANSING ONLY)
ON 35JL2-INSTALL METERING VALVE BRACKET UNDER L. H. NUT
POWER CYLINDER INSTALLATION
(ATTACHING PARTS SAME AS STANDARD INSTALLATION)
1 11 - 16 LB. FT.
2 20 - 28 LB. FT.
3 20 - 30 LB. FT.
SEE PAGE 115 FOR LEAK TEST SPECS.
FILL MASTER CYLINDER RESERVOIR TO 1/4 ± 1/8 INCH FROM TOP MEASURED AT REAR EDGE WITH .846 PINTS OF 9985013 BRAKE FLUID.
6/3/69 J WAS 1361640-NUT
1-13-69 H NOTE ADDED
7-2-68 G OPTION ADDED
6-24-68 F WAS 9783098 SPACER
4-17-68 E PART NO. ADDED
3-27-68 D2 NOTES REVISED
3-5-68 C TORQUE ADDED
3-1-68 B2 WAS 9418931 & 103321
3-1-68 A PART NO. ADDED
DATE SYM REVISION DR. CK.
TITLE CYLINDERS, BRACKET ASSY AND PEDAL MOUNTING
DATE NOVEMBER 20, 1967
DR. BY BOYER
CHECKED
APPR.
FIRST USED 1969
REF. 5C 5E 35J50, M31, M40 97-35
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC. 5
PAGE 110
SERIES A
PART NO. 401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN





DISTRIBUTOR AND SWITCH ASSEMBLY MUST BE 100% FUNCTIONALLY INSPECTED. ELECTRICAL CIRCUIT MUST CLOSE WHEN 300 P.S.I. DIFFERENTIAL PRESSURE IS APPLIED TO EITHER END OF ASSEMBLY AND MUST OPEN WHEN PRESSURE IS REMOVED.

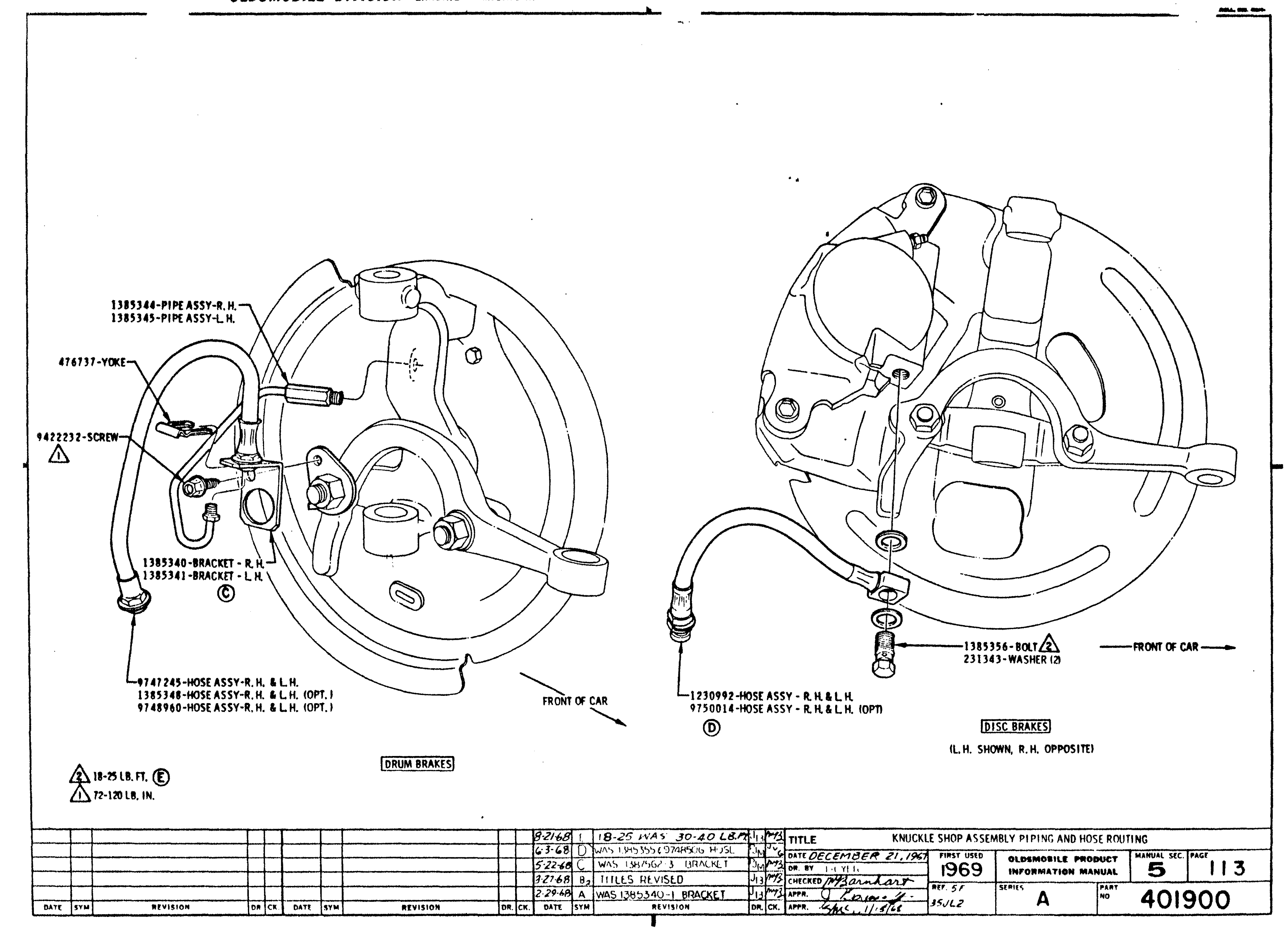
THE MAXIMUM TORQUE OF 18 LB. FT. IS NOT TO BE EXCEEDED ON THE FRONT L.H. BRAKE PIPE AND CENTER BRAKE PIPES TO DISTRIBUTOR AND SWITCH ASSEMBLY. IF TORQUE IN EXCESS OF 18 LB. FT. IS REQUIRED TO PASS LEAK TEST, THE DISTRIBUTOR AND SWITCH ASSEMBLY MUST BE REPLACED.

1. ALL BRAKE HOSES MUST BE FREE FROM TWIST WHEN INSTALLED IN FRAME BRACKETS AFTER OPPOSITE END HAS BEEN SECURELY TIGHTENED.
2. FRONT HOSES TO BE CHECKED WITH WHEELS IN STRAIGHT AHEAD POSITION. IF WHEEL END OF HOSE IS RETIGHTENED AFTER INSTALLATION, THEN THE FRAME END MUST BE REPOSITIONED TO ELIMINATE TWIST.

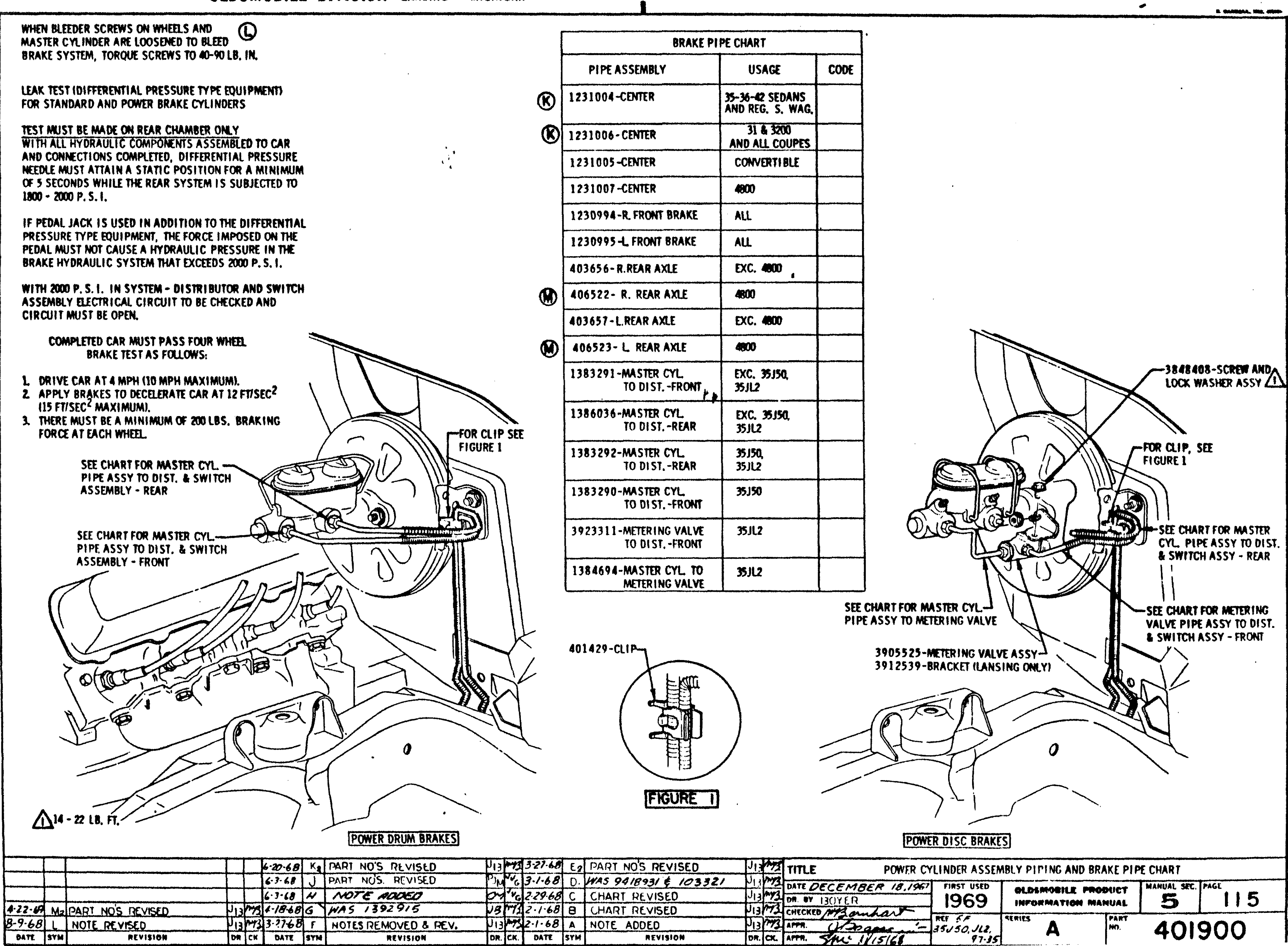
NOTE:
FOR PIPE ASSY NUMBERS, SEE CHART ON PAGE 115

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					3-10-69	K	TORQUE REVISED	J13	MJS	6-3-68	E	FASTENINGS REVISED	JM	VG
					11-25-68	J	FASTENING REVISED	J13	MJS	5-9-68	D	DIST. & SWITCH OPT. ADDED	J13	MJS
					9-6-68	H	CLIP REMOVED	J13	MJS	5-9-68	C	WAS 9747244	J13	MJS
					9-6-68	G	WAS 403939 DIST. & SWITCH	J13	MJS	3-27-68	B2	NOTES REVISED	J13	MJS
					8-7-68	F	CLIP RELOCATED	J13	MJS	2-29-68	A	WAS 1383567 BRACKET	J13	MJS

TITLE: BRAKE LINES
DATE: DECEMBER 18, 1967
DR. BY: BOYER
CHECKED: M Barnhart
APPR.: [illegible]
APPR.: [illegible] 1/10/68
FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC.: 5
PAGE: 112
REF. 5F 35JL2
SERIES: A
PART NO.: 401900



1385344-PIPE ASSY-R.H.
1385345-PIPE ASSY-L.H.
476737-YOKE
9422232-SCREW
1385340-BRACKET - R.H.
1385341-BRACKET - L.H.
C
9747245-HOSE ASSY-R.H. & L.H.
1385348-HOSE ASSY-R.H. & L.H. (OPT.)
9748960-HOSE ASSY-R.H. & L.H. (OPT.)
FRONT OF CAR
DRUM BRAKES
1385356-BOLT 2
231343-WASHER (2)
FRONT OF CAR
1230992-HOSE ASSY - R.H. & L.H.
9750014-HOSE ASSY - R.H. & L.H. (OPT)
D
DISC BRAKES
(L.H. SHOWN, R.H. OPPOSITE)
2 18-25 LB. FT. E
1 72-120 LB. IN.
8-21-68 E 18-25 WAS 30-40 LB.FT.
6-3-68 D WAS 1385355 & 9748506 HOSE
5-22-68 C WAS 1387562-3 BRACKET
3-27-68 B2 TITLES REVISED
2-29-68 A WAS 1385340-1 BRACKET
DATE SYM REVISION DR. CK.
TITLE KNUCKLE SHOP ASSEMBLY PIPING AND HOSE ROUTING
DATE DECEMBER 21, 1967
DR. BY
CHECKED
APPR.
FIRST USED 1969
REF. 5F
35JL2
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BRAKE PIPE CHART

	PIPE ASSEMBLY	USAGE	CODE
(K)	1231004-CENTER	35-36-42 SEDANS AND REG. S. WAG.	
(K)	1231006-CENTER	31 & 3200 AND ALL COUPES	
	1231005-CENTER	CONVERTIBLE	
	1231007-CENTER	4800	
	1230994-R. FRONT BRAKE	ALL	
	1230995-L. FRONT BRAKE	ALL	
	403656-R. REAR AXLE	EXC. 4800	
(M)	406522- R. REAR AXLE	4800	
	403657-L. REAR AXLE	EXC. 4800	
(M)	406523- L. REAR AXLE	4800	
	1383291-MASTER CYL. TO DIST.-FRONT	EXC. 35J50, 35JL2	
	1386036-MASTER CYL. TO DIST.-REAR	EXC. 35J50, 35JL2	
	1383292-MASTER CYL. TO DIST.-REAR	35J50, 35JL2	
	1383290-MASTER CYL. TO DIST.-FRONT	35J50	
	3923311-METERING VALVE TO DIST.-FRONT	35JL2	
	1384694-MASTER CYL. TO METERING VALVE	35JL2	

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					6-20-68	K2	PART NO'S REVISED	J13	MY3	3-27-68	E2	PART NO'S REVISED	J13	MY3
					6-3-68	J	PART NO'S. REVISED	PJM	JVG	3-1-68	D.	WAS 9418931 & 103321	J13	MY3
					6-3-68	H	NOTE ADDED	OM	JVG	2-29-68	C	CHART REVISED	J13	MY3
4-22-69	M2	PART NO'S REVISED	J13	MY3	4-18-68	G	WAS 1392915	JB	MY3	2-1-68	B	CHART REVISED	J13	MY3
8-9-68	L	NOTE REVISED	J13	MY3	3-27-68	F	NOTES REMOVED & REV.	J13	MY3	2-1-68	A	NOTE ADDED	J13	MY3

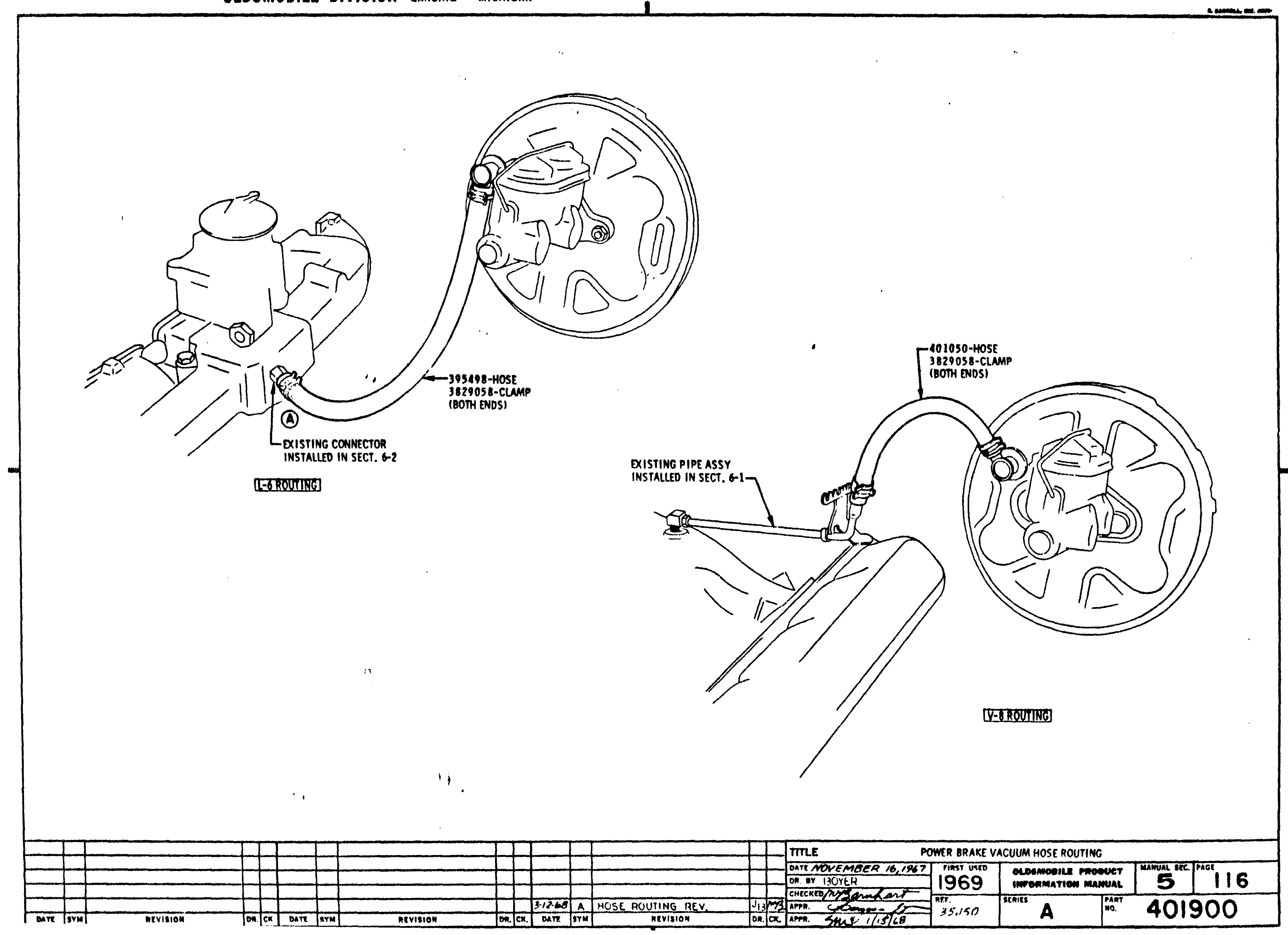
TITLE: POWER CYLINDER ASSEMBLY PIPING AND BRAKE PIPE CHART

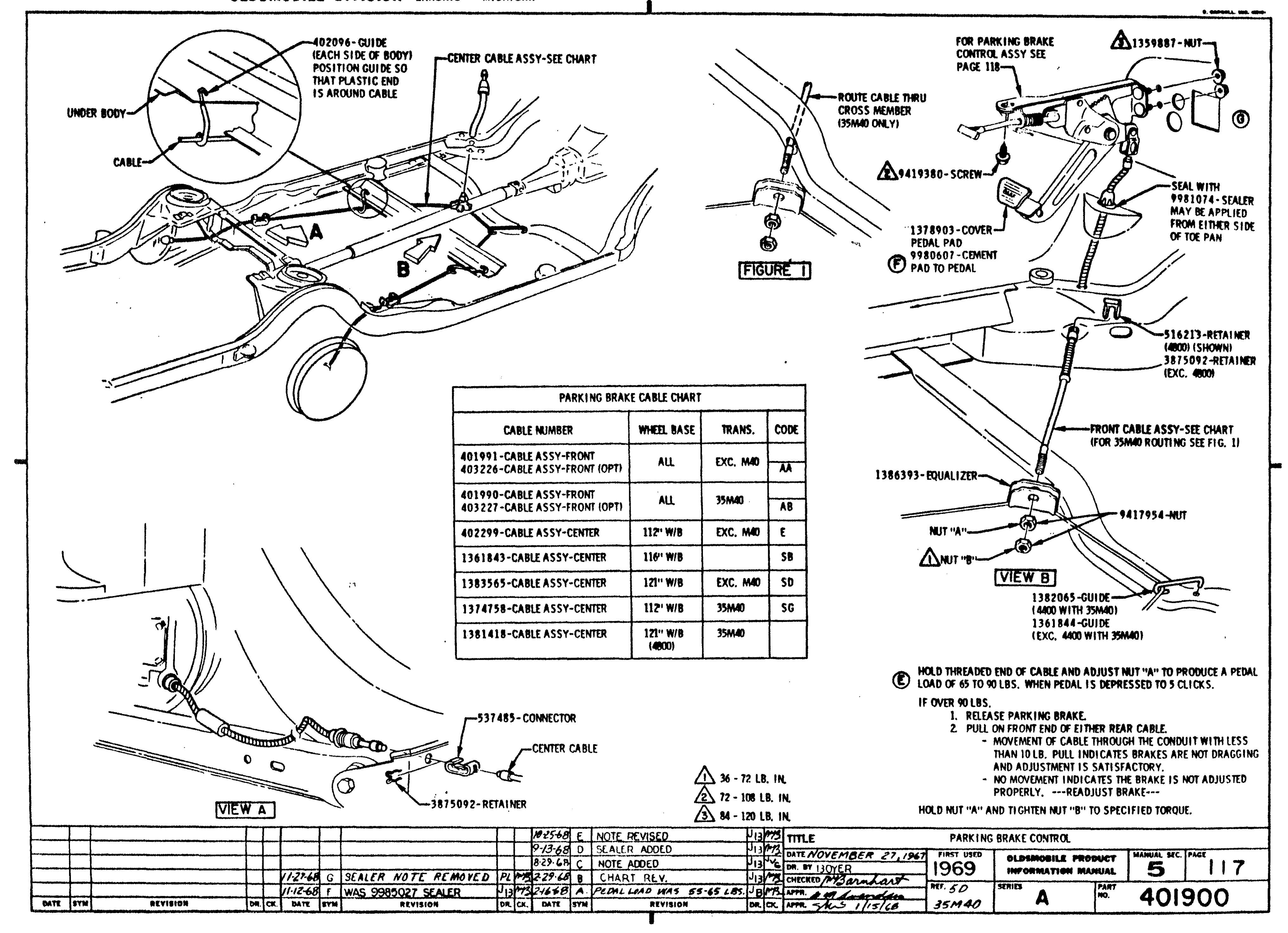
DATE DECEMBER 18, 1967 — DR. BY BOYER — CHECKED [signature] — APPR. [signature] — APPR. [signature] 1/15/68

FIRST USED 1969 — OLDSMOBILE PRODUCT INFORMATION MANUAL — MANUAL SEC. 5 — PAGE 115

REF SF 35J50, JL2, 97-35 — SERIES A — PART NO. 401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION LANSING — MICHIGAN





PARKING BRAKE CABLE CHART

CABLE NUMBER	WHEEL BASE	TRANS.	CODE
401991-CABLE ASSY-FRONT 403226-CABLE ASSY-FRONT (OPT)	ALL	EXC. M40	AA
401990-CABLE ASSY-FRONT 403227-CABLE ASSY-FRONT (OPT)	ALL	35M40	AB
402299-CABLE ASSY-CENTER	112" W/B	EXC. M40	E
1361843-CABLE ASSY-CENTER	116" W/B		SB
1383565-CABLE ASSY-CENTER	121" W/B	EXC. M40	SD
1374758-CABLE ASSY-CENTER	112" W/B	35M40	SG
1381418-CABLE ASSY-CENTER	121" W/B (4800)	35M40	

(E) HOLD THREADED END OF CABLE AND ADJUST NUT "A" TO PRODUCE A PEDAL LOAD OF 65 TO 90 LBS. WHEN PEDAL IS DEPRESSED TO 5 CLICKS.

IF OVER 90 LBS.

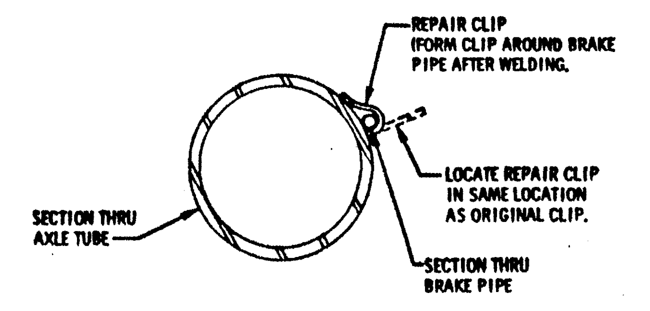
1. RELEASE PARKING BRAKE.
2. PULL ON FRONT END OF EITHER REAR CABLE.
   - MOVEMENT OF CABLE THROUGH THE CONDUIT WITH LESS THAN 10 LB. PULL INDICATES BRAKES ARE NOT DRAGGING AND ADJUSTMENT IS SATISFACTORY.
   - NO MOVEMENT INDICATES THE BRAKE IS NOT ADJUSTED PROPERLY. ---READJUST BRAKE---

HOLD NUT "A" AND TIGHTEN NUT "B" TO SPECIFIED TORQUE.

1. 36 - 72 LB. IN.
2. 72 - 108 LB. IN.
3. 84 - 120 LB. IN.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
10-25-68	E	NOTE REVISED	J13	MB					
9-13-68	D	SEALER ADDED	J13	MB					
8-29-68	C	NOTE ADDED	J13	JG					
2-29-68	B	CHART REV.	J13	MB	11-27-68	G	SEALER NOTE REMOVED	PL	MB
2-16-68	A	PEDAL LOAD WAS 55-65 LBS.	JB	MB	11-12-68	F	WAS 9985027 SEALER	J13	MB

TITLE: PARKING BRAKE CONTROL
DATE: NOVEMBER 27, 1967
DR. BY: BOYER
CHECKED: M Barnhart
APPR.: [signature]
APPR.: [signature] 1/15/68
FIRST USED: 1969
REF. 5D 35M40
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PART NO. 401900



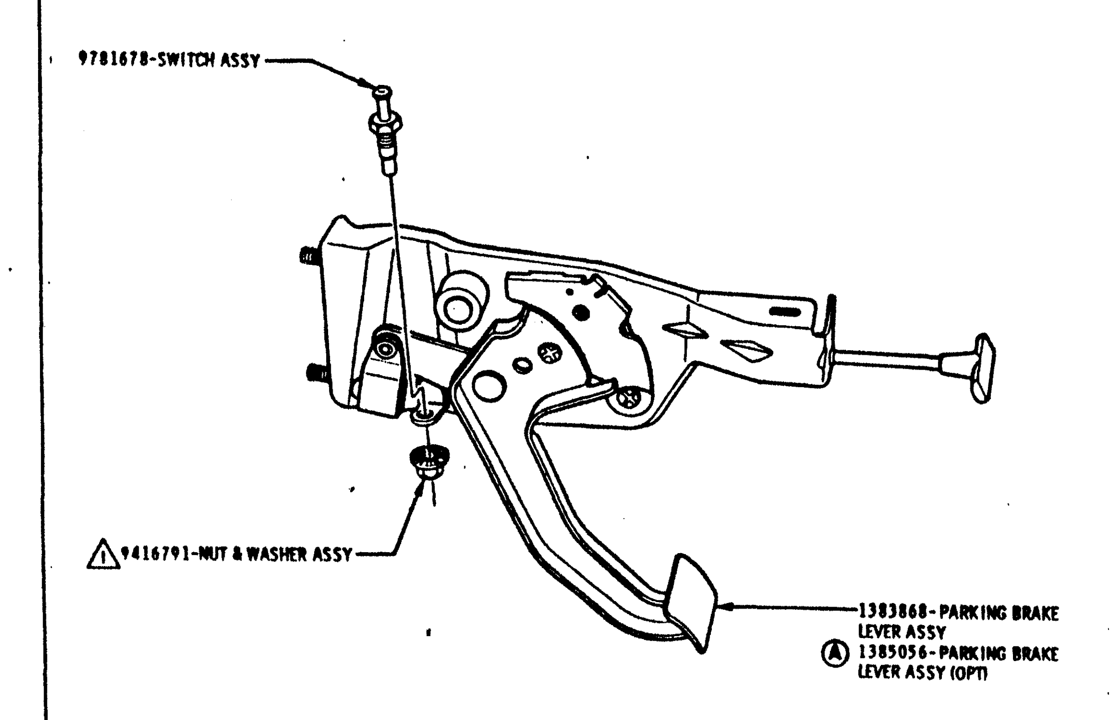
REPAIR SHALL BE MADE USING THE NELSON STUD-WELDING PROCESS OR EQUIVALENT.

GREGORY INDUSTRIES, INC. PART NUMBER A/4 101-501-332 STUD SHALL BE USED FOR REPAIRS.

ALL REPAIR JOBS MUST 100% INSPECTED FOR PROPER BRAKE PIPE RETENTION.

REAR AXLE BRAKE PIPE CLIP
REPAIR PROCEDURE





PARKING BRAKE SIGNAL LIGHT MUST COME ON AS LEVER IS DEPRESSED TO THE FIRST CLICK

⚠ 72 - 96 LB. IN.

DATE	SYM	REVISION	DR.	CK.
6-11-68	B	REPAIR PROCEDURE ADDED	PL	JVG
3-7-68	A	OPT. ADDED	J13	AMS

TITLE	PARKING BRAKE LEVER AND SWITCH ASSY			
DATE NOVEMBER 17, 1967	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 5	PAGE 118
DR. BY BOYER				
CHECKED [signature]	REF. 50 12L	SERIES A	PART NO. 401900	
APPR. [signature]				
APPR. [signature] 1/15/68				